ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
PROVIDE	**LIGHTING**
A2	LIGHTING FIXTURE TYPE. SEE LIGHTING FIXTURE SCHEDULE ON SHEET EL501.
□○	INCANDESCENT, HIGH INTENSITY DISCHARGE (H.I.D) OR COMPACT FLUORESCENT LIGHTING FIXTURE (⊣ INDICATES BRACKET, WALL MOUNTED FIXTURE)
	SINGLE HEAD PARKING LOT FIXTURE
	EXIT LIGHTING FIXTURE. ARROW(S), WHEN USED, INDICATES DIRECTION, NUMBER AND ORIENTATION OF ILLUMINATED FACE(S). TYPE U.O.N. (⊣ INDICATES BRACKET, WALL MOUNTED FIXTURE).
S	SINGLE POLE SWITCH, 20A, 120/277V
S3	THREE-WAY SWITCH, 20 A, 120/277 V.
SA	DUAL TECHNOLOGY, SINGLE RELAY (BASIS OF DESIGN WATTSTOPPER DSW-301)
SB	INFRARED DIMMING SENSOR SWITCH (BASIS OF DESIGN WATTSTOPPER PW-101D)
SC	DIGITAL DIMMING WALL SWITCH (BASIS OF DESIGN WATTSTOPPER LMDM-101)
SD	SINGLE BUTTON DIGITAL WALL SWITCH (BASIS OF DESIGN WATTSTOPPER LMSW-101)
ST	DIGITAL ASTRONOMICAL TIMER SWITCH (BASIS OF DESIGN WATTSTOPPER RT-200)
C	LIGHTING CONTACTOR, 12 POLE, NORMALLY OPEN, MECHANICALLY HELD.
OC	DIGITAL DUAL TECHNOLOGY CEILING MOUNTED SENSOR (BASIS OF DESIGN WATTSTOPPER LMDC-100)
RC	SINGLE RELAY ROOM CONTROLLER (BASIS OF DESIGN WATTSTOPPER LMRC-101)
	POWER DEVICES
	SINGLE RECEPTACLE, 20 A, 125 VAC, MOUNT 18" AFF UON.
	DUPLEX CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT 18" AFF UON.
	RECEPTACLE MOUNTED 48" AFF OR 6" ABOVE BACKSPLASH OR COUNTERTOP WHERE COUNTER IS INDICATED.
	QUADRUPLEX CONVENIENCE RECEPTACLE MOUNTED IN TWO-GANG OUTLET BOX - EACH RATED 20A, 125 VOLTS WITH SINGLE COVER PLATE, MOUNT 18" AFF, UON.
G OR WP	RECEPTACLE AS NOTED ABOVE BUT WITH INTERNAL GROUND FAULT PROTECTION. "WP" INDICATES WEATHERPROOF OUTLET WITH INTERNAL GROUND FAULT PROTECTION.
	SPECIAL PURPOSE RECEPTACLE. REFER TO PANEL SCHEDULE FOR AMPERAGE.
	PAD MOUNTED TRANSFORMER (SITE)
	PAD MOUNTED UTILITY SWITCH (SITE)

SYMBOL	DESCRIPTION
PROVIDE	**TELEPHONE AND DATA SYSTEM**
	LADDER TYPE CABLE TRAY. 8"W BY 2"H, SECURED TO STRUCTURE @5' ON CENTER PER MANUFACTURER'S RECOMMENDATIONS.
	COMMUNICATIONS OUTLET
	TELEPHONE OUTLET
	DATA OUTLET
	EQUIPMENT CONNECTIONS
M	MOTOR CONNECTION AS INDICATED
J	JUNCTION BOX
60A/3P/N/1	DISCONNECT SWITCH, 600V, 3P = NO. OF POLES. 60A = SWITCH AMPERAGE, N = FUSE RATING, (N = NON-FUSED) 3R = NEMA RATING.
SM	(MOTOR RATED SWITCH) (MANUAL MOTOR STARTER SWITCH) WITH OVERLOADS.
	DISTRIBUTION
	PANELBOARD - 208Y/120V
	WIRE, CONDUIT AND RACEWAY
	BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT, CONCEALED IN WALL OR CEILING. SEE PANEL SCHEDULES.
LAF- 1,3	HOMERUNS TO PANEL. PANEL AND CIRCUIT DESIGNATIONS AS INDICATED.
	INDICATES A CONDUIT RUN UNDERGROUND OR UNDER SLAB.
	FLEXIBLE CONDUIT.
	GENERAL
100	ROOM NUMBER SYMBOL

SYMBOL	DESCRIPTION
PROVIDE	**LIGHTNING PROTECTION**
	LIGHTNING PROTECTION SYSTEM MAIN DOWN CONDUCTOR
	EARTH ELECTRODE SUBSYSTEM CONDUCTOR.
	DRIVEN GROUND ROD
	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL (FACP)
ANN	FIRE ALARM ANNUNCIATOR PANEL
F	FIRE ALARM PULL STATION, MOUNT @42" AFF
F	FIRE ALARM STROBE/HORN, MOUNT @80" AFF
F	FIRE ALARM STROBE, MOUNT @80" AFF
S	FIRE ALARM SYSTEM SMOKE DETECTOR UON
S	FIRE ALARM DUCT SMOKE DETECTOR
SD	FIRE ALARM SMOKE DAMPER
FS	FIRE ALARM FLOW SWITCH
TS	FIRE ALARM TAMPER SWITCH
DM	FIRE ALARM MAGNETIC DOOR HOLDER
	NURSE CALL
N	NURSE CALL EMERGENCY PULL CORD
NS	NURSE CALL STAFF STATION
N	NURSE CALL SIGNAL LIGHT MOUNTED AT 2" ABOVE DOOR.
	ACCESS CONTROL
CR	CARD READER
KC	KEYPAD WITH CARD READER
ES	ELECTRIC STRIKE
DC	DOOR CONTACT
PS	POWER SUPPLY
	CCTV
	CCTV CAMERA
	CATV
TV	CABLE TELEVISION OUTLET
	ANTI-WANDER
W	WALL MOUNTED MOTION SENSOR
M	MAGNETIC DOOR LOCK
A	ANNUNCIATOR

ABBREVIATIONS

A	AMPERE
A/C	AIR CONDITIONING
AC	ACCESS CONTROL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AW	ANTI-WANDER
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
DISC SW	DISCONNECT SWITCH
DWG	DRAWING
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EQUIP	EQUIPMENT
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FLUOR	FLUORESCENT
G, GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
KAIC	THOUSAND AMP INTERRUPTING CAPACITY, RMS SYMMETRICAL
KCMIL	THOUSAND CIRCULAR MILS
KWH	KILOWATT HOUR
KVA	KILOVOLT AMPERE
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG HT	MOUNTING HEIGHT
NC	NURSE CALL
NF	NON-FUSED
PA	PUBLIC ADDRESS
PNL	PANEL
RECEPT	RECEPTACLE
SW	SWITCH
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLTS
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

LEGEND NOTES

1. WIRE AND CONDUIT FOR MOTOR AND EQUIPMENT LOADS SHALL BE CONTINUOUS IN SIZE AND FROM SOURCE TO FINAL CONNECTION. SIZE AND COUNT SHALL BE AS INDICATED ON THE CIRCUIT HOMERUN UNLESS OTHERWISE NOTED.
2. COORDINATE EXACT LOCATION OF CEILING MOUNTED LIGHTING FIXTURES AND SPEAKERS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
3. WHERE A CONNECTION IS INDICATED, THE CONTRACTOR SHALL PROVIDE ALL MATERIALS (JUNCTION BOXES, CONDUIT, WIRE, ETC,) AND LABOR REQUIRED TO MAKE THE CONNECTION.
4. COORDINATE EXACT LOCATION OF WALL MOUNTED RECEPTACLES TO SERVE WALL MOUNTED EQUIPMENT WITH ARCHITECTURAL ELEVATIONS.
5. SEE TELECOMMUNICATIONS DRAWINGS FOR LOCATIONS OF TELECOMMUNICATIONS AND SPECIAL SYSTEMS DEVICES. ELECTRICAL CONTRACTOR TO PROVIDE BOXES AND CONDUIT PER ELECTRICAL ROUGH-IN LEGEND AND NOTES ON T100.

Revisions: Date

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NORTH CAROLINA PROFESSIONAL ENGINEER RANDY B. PEACOCK

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Drawing Title: LEGEND AND ABBREVIATIONS ELECTRICAL

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: PEACOCK | Drawn: BRADY

Project Number: 565-131

Building Number: .

Drawing Number: E001

Dwg. of .

FINAL SUBMITTAL

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

Department of Veterans Affairs

VA FORM 08-6231
CN 5119

GENERAL NOTES:

ALL UNDERGROUND CONDUITS SHOWN ON THIS SHEET SERVING LIGHTING AND BUIL;DINGS BEING REMOVED ARE TO BE REMOVED.

DEMOLITION NOTES:

(THIS SHEET ONLY)

1. EXISTING POLE MOUNTED AREA LIGHT TO REMAIN.
2. EXISTING POLE MOUNTED LIGHT FIXTURE AND BRANCH CIRCUIT TO BE REMOVED.
3. EXISTING ELECTRICAL MANHOLE.
4. EXISTING FIBER-OPTIC MANHOLE.
5. UTILITY TRANSFORMER TO REMAIN.
6. EXISTING CIRCUIT SERVING THIS POLE SHELL BE PROVIDED WITH A NEW HOME RUN AS SHOWN ON NEW SITE PLAN.
7. FEEDER SERVING VAULT TO BE REPLACED AS SHOWN ON NEW WORK SITE PLAN ES101.
8. REMOVE COMMUNICATIONS CABLE BACK TO NEAREST MANHOLE OR POINT OF SERVICE.

GRAPHIC SCALE

1"=30' — 0, 15', 30', 60', 120'

FINAL SUBMITTAL

Revisions: | Date

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Drawing Title: ELECTRICAL SITE PLAN EXISTING CONDITIONS AND DEMOLITION

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: PEACOCK | Drawn: BRADY

Project Number: 565-131

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OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

Department of Veterans Affairs

FILE NAME: H:\2013\5119-VA Fayetteville CLC\Drawings\5119 ESD101.dwg LAYOUT NAME: Layout1 PLOTTED: Monday, February 02, 2015 - 4:08pm

NOTES:
(THIS SHEET ONLY)

1. EXISTING POLE MOUNTED LIGHT FIXTURE TO REMAIN.
2. GENERATOR PAD TO BE INSTALLED UNDER FUTURE PHASE OF THIS PROJECT.
3. ROUTE FEEDERS TO PANELS 1LN11 AND 1LN12, REFER TO EP101 FOR EXACT LOCATION.
4. ROUTE FEEDERS TO ATS'S, REFER TO EP101 FOR EXACT LOCATION OF ATS'S.
5. ROUTE TO FIRE ALARM CONTROL PANEL (FACP). REFER TO EY101 FOR EXACT LOCATION OF FACP.
6. ROUTE EMERGENCY FEEDERS FROM THIS BUILDING TO OTHER 10 BEDROOM BUILDING AS SHOWN.
7. CONNECT EMERGENCY FEEDERS 2LL11 AND 2LE11. REFER TO EP101 FOR EXACT PANEL LOCATIONS.
8. PROVIDE A DIRECTIONAL BORE FROM PULLBOX TO BUILDING 21 AS SHOWN WITH (3)-4" CONDUITS FOR COMMUNICATIONS CABLING. PROVIDE (5) 12 STRAND FIBERS IN ONE CONDUIT, (5) 50 PAIR PHONE CABLES IN ONE CONDUIT AND LEAVE ONE CONDUIT EMPTY FOR SPARE. ALL CONDUITS SHALL BE PROVIDED WITH PULL CORD FOR FUTURE.
9. PROVIDE A DIRECTIONAL BORE FROM PULLBOX TO PULLBOX DESCRIBED IN NOTE 10 AS SHOWN WITH (3)-4" CONDUITS FOR COMMUNICATIONS CABLING. PROVIDE (5) 12 STRAND FIBERS IN ONE CONDUIT, (5) 50 PAIR PHONE CABLES IN ONE CONDUIT AND LEAVE ONE CONDUIT EMPTY FOR SPARE. ALL CONDUITS SHALL BE PROVIDED WITH PULL CORD FOR FUTURE.
10. PROVIDE A HUBBLE TORSION ASSIST BOX ASSEMBLY PART #A1A4860504. LID SHALL HAVE THE WORD "COMMUNICATION" AS LOGO.
11. ROUTE FROM PULLBOX A 4" CONDUITS TO BUILDING AS SHOWN. PROVIDE A 12 STRAND FIBER CABLE AND A 50 PAIR PHONE CABLE TO EACH BUILDING AS SHOWN. AT THREE EXISTING BUILDING ROUTE CONDUIT UNDER CRAWL SPACE AND TURN UP INTO BUILDING COMMUNICATIONS CLOSET AND MAKE ALL NECESSARY TERMINATIONS AT TWO NEW BUILDINGS.
12. PROVIDE ON EXTERIOR WALL OF BUILDING 21 ADJACENT TO EXISTING PULL BOX 2 NEW PULL BOXES SIZED PER N.E.C. TO ROUTE NEW COMMUNICATION CONDUITS INTO BUILDING. MOUNT ONE BOX AS CLOSE TO GRADE AS POSSIBLE AND THE OTHER HIGH ON WALL TO ROUTE CONDUITS INTO BUILDING ABOVE ACCESSIBLE CEILING.
13. ROUTE PHONE CABLE TO EXISTING TELEPHONE EQUIPMENT IN THIS AREA AND MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
14. ROUTE FIBER CABLE TO EXISTING DATA EQUIPMENT IN THIS AREA AND MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE AND OPERATIONAL SYSTEM.
15. EXISTING TO REMAIN 15KV SWITCH SS-5. SS-5 HAS A SPARE POSITION FOR A NEW FEEDER WITH A 4" CONDUIT TO MH-4.
16. PROVIDE A 3#2/0 15KV CABLE WITH 1#6 600V XHHW NEUTRAL FROM SPARE POSITION IN EXISTING 15KV SWITCH SS-5 IN EXISTING 4" CONDUIT IN 2W-4" CONCRETE ENCASED DUCTBANK.
17. EXISTING TO REMAIN MANHOLE DESIGNATED AS MANHOLE #4 FOR THIS PROJECT. CONTRACTOR TO PROVIDE RACKING AND MINIMUM 20 FEET OF SPARE CABLE IN MANHOLE.
18. PROVIDE NEW 2W-4" CONCRETE ENCASED DUCTBANK FROM MH-4 TO NEW TRANSFORMER T-5. PROVIDE 3#2/0 15KV CABLE WITH 1#6 600V XHHW NEUTRAL IN NEW 4" DUCT CONTINUED FROM MH-4.
19. PROVIDE NEW 500KVA-12.4KV/120/208V PAD MOUNTED TRANSFORMER T-5. PROVIDE ADDITIONAL 24" RADIUS SWEEPS FROM PRIMARY COMPARTMENT OF NEW TRANSFORMER TO 5' OUTSIDE PAD AND CAP FOR FUTURE USE.
20. PROVIDE CONNECTION TO VAULTS TO REPLACE CIRCUITS BEING REMOVED DURING DEMOLITION. DURING CONSTRUCTION PROVIDE A 3 CIRCUIT LOAD CENTER TEMPORARY SERVICE FROM AERIAL SERVING BUILDING 42T. TEMPORARY SERVICE SHALL BE REMOVED UPON COMPLETION OF PROJECT.
21. ROUTE 3#12;3/4"C TO PANEL 2LN11 AND SERVING EXISTING EXTERIOR LIGHTING, UTILIZE BREAKER, LABEL SITE LIGHTING IN PANEL SCHEDULE.
22. ROUTE 3#12;3/4"C TO PANEL 1LN11 AND SERVING EXISTING EXTERIOR LIGHTING, UTILIZE BREAKER, LABEL SITE LIGHTING IN PANEL SCHEDULE.
23. STUB OUT 4" CONDUIT FOR FUTURE COMMUNICATIONS CABLE AT THIS LOCATION CABLE AT THIS LOCATION. PROVIDE A GRADE MOUNTED MARKING PIN FOR FUTURE LOCATION OF CONDUIT.
24. PROVIDE A HUBBLE PART #PG1118HA00 11"x18" PULLBOX AT THIS LOCATION. INTERCEPT EXISTING FIRE ALARM CIRCUITS SERVING BUILDINGS 45, 46, 47, AND 48 AND REROUTE TO BUILDING 4 WHERE THEY ARE CURRENTLY SERVED FROM. PROVIDE ALL NEW CONDUCTORS FROM BUILDING 4 TO EXISTING BUILDING AND RECONNECT TO EXISTING EQUIPMENT. PROVIDE NEW 4" CONDUIT AND CONDCUTOR FROM PULLBOX TO BUILDING 4. UPON COMPLETION OF WORK THE EXISTING DEVICE MUST MAINTAIN THEIR CURRENT OPERATION AND RECONNECT TO FIRE ALARM PANEL IN BUILDING 4. FIELD VERIFY EXACT LOCATION OF FIRE ALARM PANEL IN BUILDING 4.
25. PROVIDE FROM EACH ATS A 1-1/4" CONDUIT TO GENERATOR CONTROL PANEL FOR CONTROL CABLES. PROVIDE 6#12,3#12;3/4"C FRIN OABEK 1LE11-38,40,42 TO SERVE GENERATOR BATTERY CHARGER, JACKET HEATER, AND SERVICE RECEPTACLE.

GRAPHIC SCALE

1"=50' 0 25' 50' 100' 150'

FINAL SUBMITTAL

Revisions: | Date

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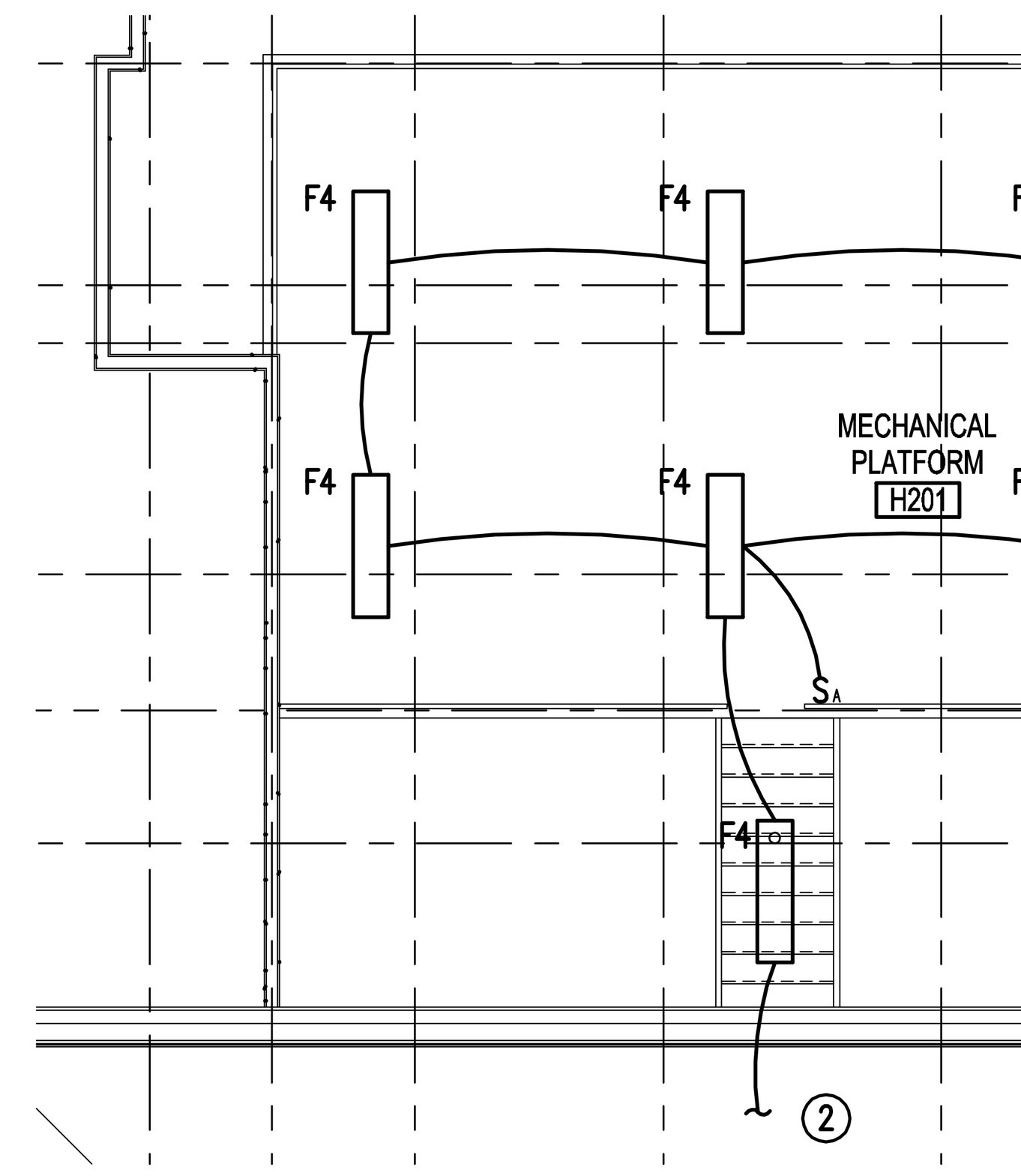
Drawing Title: ELECTRICAL SITE PLAN NEW WORK	Project Title: FAYETTEVILLE CLC PROJECT ONE	Project Number: 565-131	OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT
		Building Number:	
Approved: Project Director	Location: FAYETTEVILLE, NC	Drawing Number: ES101	Department of Veterans Affairs
	Date: February 5, 2015 · Checked: PEACOCK · Drawn: BRADY	Dwg. of	

VA FORM 08-6231
CN 5119



10 BED HOME MEZZANINE LIGHTING PLAN – ELECTRICAL

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

1. THE BASIS OF DESIGN FOR LIGHTING IS WATT STOPPER ROOM CONTROLLER, AND ANY/ALL ASSOCIATED, COMPATIBLE WALL STATIONS, DAYLIGHT SENSORS, OCCUPANCY/VACANCY SENSORS, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
2. COMMUNICATION BETWEEN ROOM CONTROLLER AND ANY/ALL DEVICES ASSOCIATED WITH CONTROLS SYSTEM (WALL STATIONS, DAYLIGHT SENSORS, OCCUPANCY/VACANCY SENSORS, ETC.) SHALL BE BY CAT 5 CABLE WITH RJ45 CONNECTORS.
3. CAT 5 CABLING WITH PRE-TERMINATED RJ45 CONNECTORS SHALL BE PROVIDED BY LIGHTING CONTROL MANUFACTURER. CONTRACTOR SHALL PROVIDE TOTAL NUMBER OF CABLE REQUIRED, AND LENGTHS REQUIRED PRIOR TO ORDERING.
4. EXACT MOUNTING LOCATIONS OF ROOM CONTROLLERS AND ANY/ALL DEVICES ASSOCIATED WITH CONTROLS SYSTEM TO BE FIELD VERIFIED. DRAWINGS ARE DIAGRAMMATIC ONLY.
5. ALL POWER WIRING BETWEEN ROOM CONTROLLER AND LIGHTING FIXTURES, ETC. TO BE IN CONDUIT.
6. ROUTING OF CAT 5 CABLING SHALL BE IN CONDUIT IN WALLS OR NON-ACCESSIBLE LOCATIONS AND ROUTED IN CABLE TRAY ABOVE CEILING, ROUTED PARALLEL AND AT 90° ANGLES TO BUILDING LINES FOR A NEAT AND ORGANIZED INSTALLATION. CONTRACTOR SHALL USE THIS ROUTING METHOD WHEN GIVING LENGTHS OF CABLING TO MANUFACTURER FOR ORDERING.
7. ALL "F1" FIXTURES SHALL BE PROVIDED WITH LOW-VOLTAGE CONTROLLER, SEE FIXTURE SCHEDULE SHEET EL501. SWITCHING CONTROL OF FIXTURE TO BE BY PATIENT STATION LOCATED IN WALL BY BED. PROVIDE 1" C FROM FIXTURE CONTROLLER TO NURSE CALL PATIENT STATION. SEE SPECIAL SYSTEMS SHEET EY101.

NOTES:

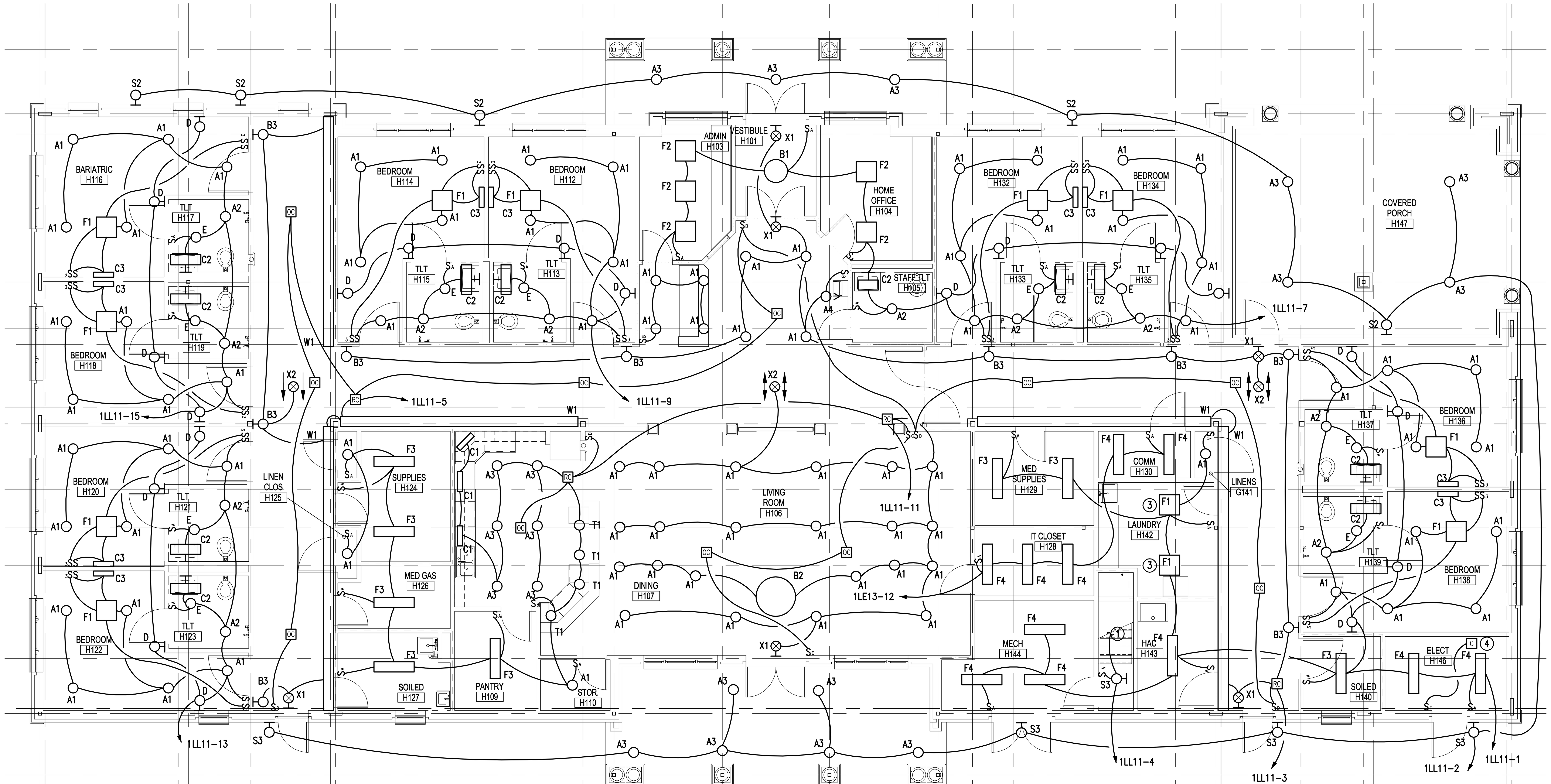
(THIS SHEET ONLY)

(1) CONNECT TO FIXTURE AS REFERENCED IN NOTE 2.

(2) CONNECT TO FIXTURE AS REFERENCED IN NOTE 1.

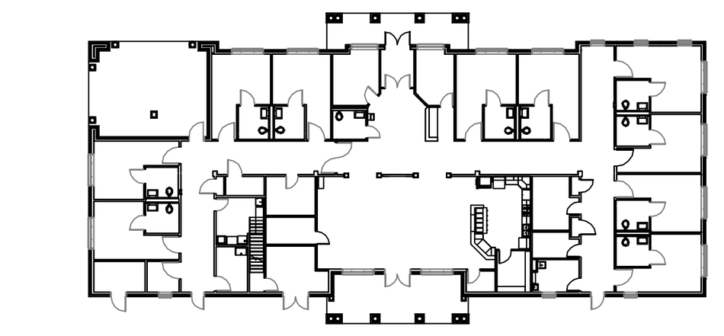
(3) PROVIDE FLANGE KIT FOR THIS FIXTURE.

(4) ROUTE ALL EXTERIOR SITE AND BUILDING MOUNTED LIGHTING POWERED FROM 1LN11 THROUGH THIS LIGHTING CONTRACTOR. PROVIDE A PHOTOCELL IN PARALLEL WITH SWITCH SHOWN CONTROLLING CONTACTOR. MOUNT PHOTOCELL TO BUILDING JUST BELOW ROOF LINE FACING EAST.



10 BED HOME LIGHTING PLAN – ELECTRICAL

SCALE: 3/16" = 1'-0"



PLAN ORIENTATION TO BE CONSTRUCTED IN THIS PROJECT

NOTE : ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FLOOR PLAN DRAWINGS OF THE BUILDING ENVELOPE AND INTERIOR FOR THE 10 BEDROOM HOUSES ARE DRAWN OPPOSITE HAND (MIRROR IMAGE) OF THE REQUIRED ORIENTATION. REFERENCE THIS KEY PLAN AND/OR CIVIL AND LANDSCAPE DRAWINGS FOR THE PROPER BUILDING ORIENTATION AND ASSOCIATED WALKS, DRIVES, PARKING AND SITE UTILITIES.

BUILDING ORIENTATION KEY PLAN

FINAL SUBMITTAL

Revisions: | Date

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Drawing Title:	10 BED HOME LIGHTING PLAN ELECTRICAL
Approved: Project Director	
Project Title:	FAYETTEVILLE CLC PROJECT ONE
Location:	FAYETTEVILLE, NC
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Project Number:	565-131
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OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

Department of Veterans Affairs

VA FORM 08-6231
CN 5119

LIGHTING FIXTURE SCHEDULE

TYPE	FIXTURE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP NO./TYPE	VOLTAGE	WATTAGE	MOUNTING TYPE	MOUNTING HEIGHT	REMARKS
A1	OPEN DOWNLIGHT 4" DIA, DIMMING LED 1500 LUMEN MODULE, 3000K CCT, 80CRI, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, PRISMATIC WHITE TRIM	PRESCOLITE	LF4LEDG4120-4LFLE6G4-30K-WT	LED	120	30	RECESSED	CEILING	
A2	LENSED DOWNLIGHT 4" DIA. LED, 1100 LUMEN MODULE, 3000K CCT, 80 CRI, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, PRISMATIC GLASS LENS,WHITE TRIM	PRESCOLITE	LF4LED4G4120-4LFLE5G4-30K-WT	LED	120	15	RECESSED	CEILING	
A3	LENSED DOWNLIGHT 4" DIA. LED, 2000 LUMEN MODULE, 3000K CCT, 80 CRI, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, PRISMATIC GLASS LENS,WHITE TRIM	PRESCOLITE	LF4LED4G4120-4LFLED7G4-30K-WT	LED	120	15	RECESSED	CEILING	
A4	WALL WASH DOWNLIGHT 4" DIA, DIMMING LED 1500 LUMEN MODULE, 3000K CCT, 80CRI, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, PRISMATIC WHITE TRIM	PRESCOLITE	LF4LEDG4120-4LFLE6G4-30K-WT	LED	120	15	RECESSED	CEILING	
B1	DECORATIVE PENDANT WITH 18" FAUX ALABASTER ACRYLIC BOWL, TRIM RING WITH DECORATIVE CAST BRASS SHELLS, 3 ANGLED REEDED STEMS AND A SINGLE REEDED CENTER STEM FORM TRIM RING TO CANOPY. 'V' SYTLE BOWL OVERLAY AND BOTTOM FINIAL, ANTIQUE BRONZE FINISH.	OCL	CL1-P1A1-18-FA-ABR-4QD26-VOL-120	4/26W DTT	120	130	PENDANT	CEILING	
B2	DECORATIVE PENDANT WITH 31" FAUX ALABASTER ACRYLIC BOWL, TRIM RING WITH DECORATIVE CAST BRASS SHELLS, 3 ANGLED REEDED STEMS AND A SINGLE REEDED CENTER STEM FORM TRIM RING TO CANOPY. 'V' SYTLE BOWL OVERLAY AND BOTTOM FINIAL, ANTIQUE BRONZE FINISH.	OCL	CL1-P1A1-31-FA-ABR-8QD26-VOL-120	8/26W DTT	120	260	PENDANT	CEILING	
B3	DECORATIVE WALL SCONCE WITH 14" FAUX ALABASTER ACRYLIC DIFFUSER, TRIM RING WITH DECORATIVE CAST BRASS SHELLS, ANTIQUE BRONZE FINISH.	OCL	CL1-S1SA-18-FA-ABR-2QD13	2/16W DTT	120	35	SURFACE	WALL	
C1	LED UNDER CABINET LIGHT, LOW PROFILE ALUMINUM HOUSING, WHITE FINISH, 3 5/8" WIDEX1' HIGH X 24" LONG	LITHONIA	UCLD 24 WH	LED	120	15	SURFACE	UNDER CABINET	
C2	OVER MIRROR LIGHT, 24" LONG, STEEL HOUSING WITH END CAPS, NO VOC ACRYLIC POWDER COAT FINISH, TRANSLUCENT MATTE WHITE ACRYLIC DIFFUSER, 3500K LED	VISA	CV2026-LNW1800	LED	120	25	SURFACE	WALL	
C3	OVER BED LIGHT, 49" LONG, HOUSING PAINTED WITH ANTIMICROBIAL COATING, LED, 3500K, 85 CRI, CLEAR TOP LENS FOR AMBIENT LIGHTING, MATTE OYSTER LINEN ACRYLIC DIFFUSER AND MATTE WHITE BOTTOM LENS FOR DOWNLIGHTING	VISA	CB1904-LNW8100-PB1035-OLIN-AMC-NGT	LED	120	100	SURFACE	WALL	
D	RECESSED NIGHT LIGHT 3000K LED WITH WHITE FINISH, DIFFUSE SILVER REFLECTOR, AND AMBER LENS	ELP	12W1LS-2H-FLA-35	LED	120	4	RECESSED	WALL	
E	SURFACE CEILING LUMINOUS CLOUD 14" DIAMETER MATTE WHITE ACRYLIC DIFFUSER, SOLID ALUMINUM HOUSING WITH MATTE WHITE PAINTED FINISH, 1-26W CFL LAMP, DAMP LOCATION	SHAPER	213-S-CFL/1-120V-MW-DL	1/26W DTT	120	35	SURFACE	CEILING	
F1	2'X2' RECESSED PRISMATIC TROFFER, MUST BE PROVIDED WITH LOW VOLTAGE CONTROLLER, PATIENT CONTROLLED SWITCHING OPTION	COLUMBIA	4PS 22-2-17-G-A12-EP-U	2/14W T5	120	35	RECESSED	CEILING	
F2	2'X2' RECESSED FULL DISTRIBUTION LED LUMINAIRE WITH FROSTED LINEAR PRISIMED LENSES 82 CRI, 3000K	COLUMBIA	LEPC-22-30 LW G-LL U	2/14W T5	120	35	RECESSED	CEILING	
F3	SURFACE WRAP, 2 LAMP, NARROW BODY, INJECTION MOLDED ACRYIC LENS, END CAPS, PROGRAMMED START ELECTRONIC BALLAST, PAIN AFTER FABRICATION	COLUMBIA	AWW-4-2-28-EP-U	2/F32W T8 RS SP35	120	80	SURFACE	CEILING	
F4	INDUSTRIAL 2 LAMP, APERATURED REFLECTOR, BAKED WHITE ENAMEL FINISH, MULIT-VOLT BALLAST, PAINT AFTER FABRICATION	COLUMBIA	KL-4-3-28-U-EP-U	2/F32W T8 RS SP35	120	80	SURFACE	CEILING	
S1	POLE MOUNTED ROADWAY LUMINAIRE LED 42 LEDS 350mA, W, TYPE 3 DISTRIBUTION 4000K ON 15' POLE	VISIONAIRE	ODN-2-L-T3-42LC-350-40K-UNV-AML-BK-C1-H1	LED	120	80	POLE	15'	
S2	DECORATIVE EXTERIOR WALL BRACKET	VISIONAIRE	MON-M-SLD-26-CF-UNV-VA110M-WM-BK	1/26W CF	120	35	SURFACE	WALL	
S3	WALL MOUNTED EXTERIOR LED, FULL CUT-OFF IES TYPE II LUMINAIRE, DIE CAST ALUMINUM HOUSING AND DOOR, BRONZE POLYESTER POWDER COAT FINISH TEMPERED GLASS LENS.	MCGRAW-EDISON	ISS-CO2-LED-E1-BL2-BZM	LED	120	55	SURFACE	WALL	
T1	LOW VOLTAGE TRACK LIGHT - ART GLASS PENDANT 5W LED 3000K 80 CRI, DIMMING, MOUNTED TO MONOLINE SUSPENDED TRACK RAIL	JUNO	P61-MF-BRZ-OPL-MLKS3-BRZ(TRACK)	LED	120	5	PENDANT	TRACK	
W1	LINEAR FLOURESCENT RECESSED ASYMMETRIC	PRUDENTIAL	BIO-MOD-FLSH-1T5-04-AWW-TMW-D1W-SC-120-X3	1/F28 T5 RS SP35	120	35	RECESSED	CEILING	
X1	LED EXIT LIGHT, CAST ALUMINUM HOUSING, NICAD BATTERY, WHITE HOUSING, RED LETTERS, SINGLE FACE, UNIVERSAL MOUNTING	EXITRONICS	400U WB WW	LED	120	5	SEMI-RECESSED	CEILING	
X2	LED EXIT LIGHT, CAST ALUMINUM HOUSING, NICAD BATTERY, WHITE HOUSING, RED LETTERS, DOUBLE FACE, UNIVERSAL MOUNTING	HIGH LITES	ZBP-BLED-5-R-W	LED	120	5	SEMI-RECESSED	CEILING	

FINAL SUBMITTAL

Revisions: | Date

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — RANDY B. PEACOCK

ARCHITECT/ENGINEERS:

TOLAND MIZELL MOLNAR
590 MEANS ST NW ATLANTA GA 30318

Drawing Title: LIGHT FIXTURE SCHEDULE ELECTRICAL

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: RBP | Drawn: TWG

Project Number: 565-131

Building Number: .

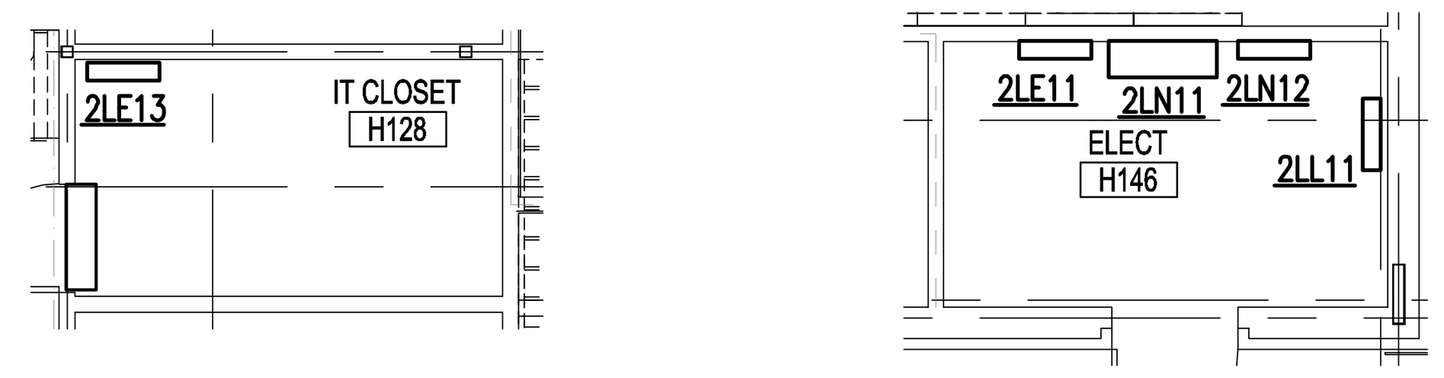
Drawing Number: EL501

Dwg. of .

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

Department of Veterans Affairs

VA FORM 08-6231
CN 5119



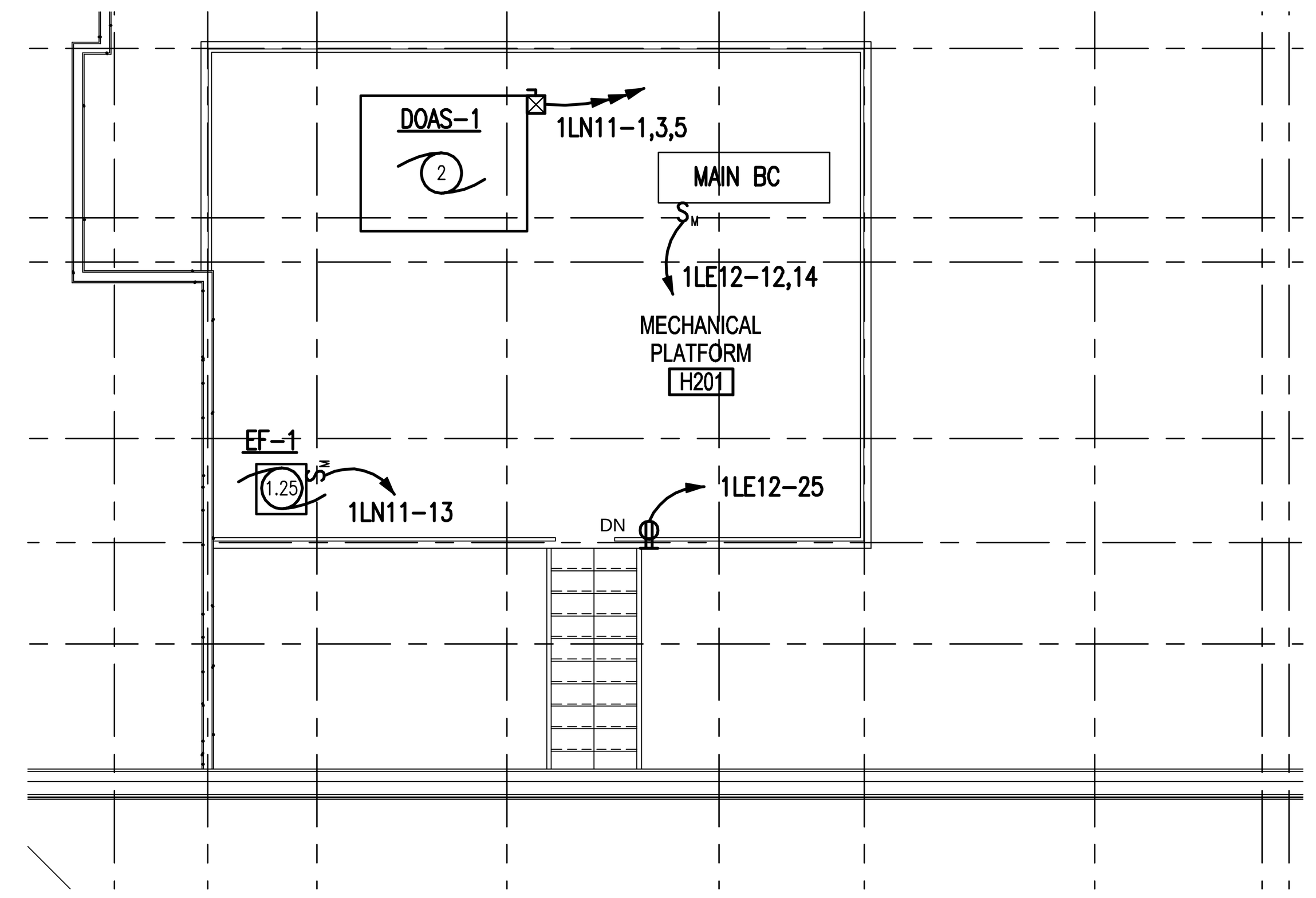
IT AND ELECTRICAL ROOMS OTHER 10 BED HOME PLAN – ELECTRICAL

SCALE: 3/16" = 1'-0"

GENERAL NOTES:

(THIS SHEET ONLY)

A. ALL CIRCUITS SHOWN AS 1LE12-X IS 2LE11-X IN OTHER 10 BEDROOM BUILDING.



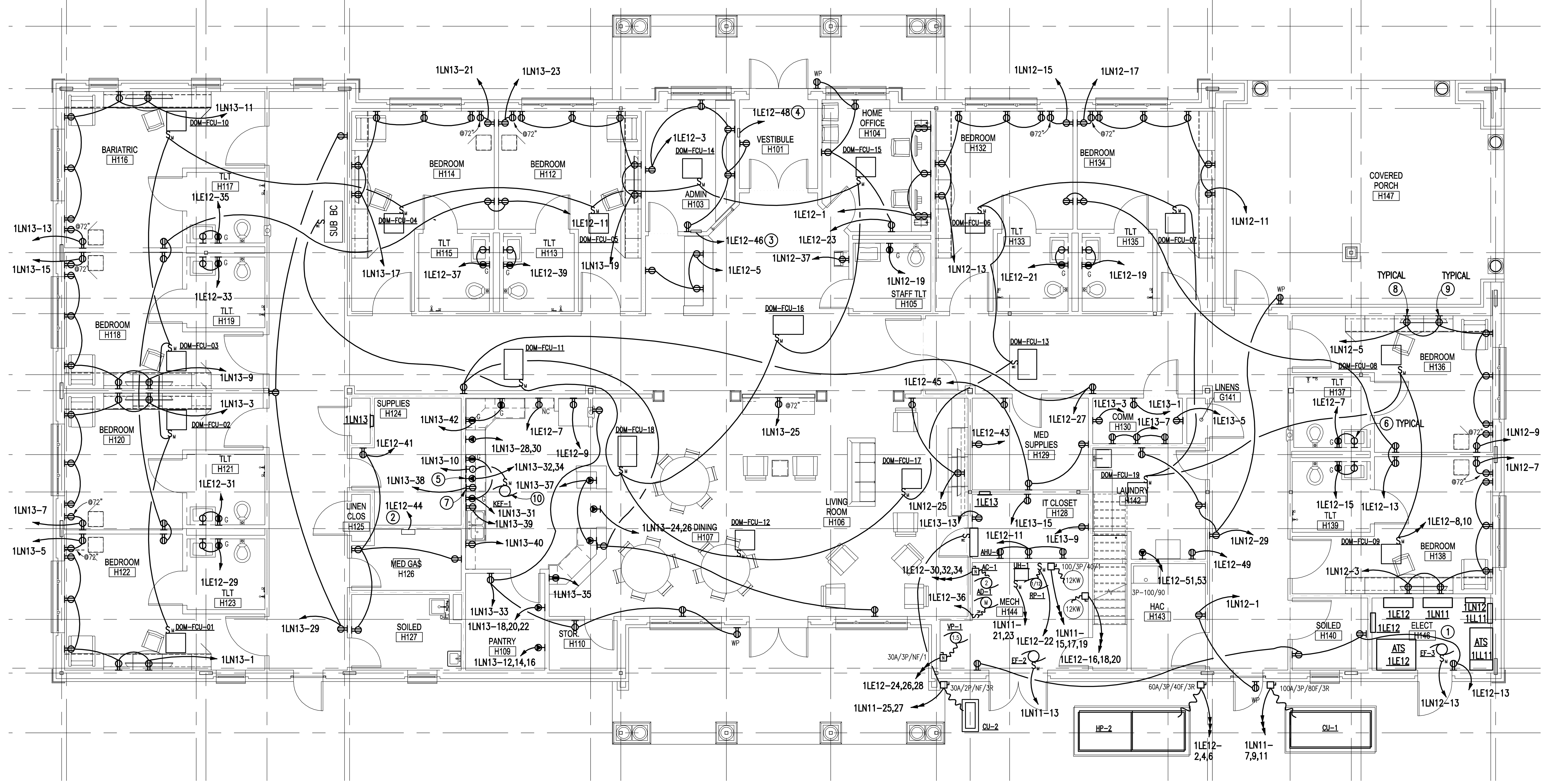
10 BED HOME MEZZANINE PLAN – ELECTRICAL

SCALE: 3/16" = 1'-0"

NOTES:

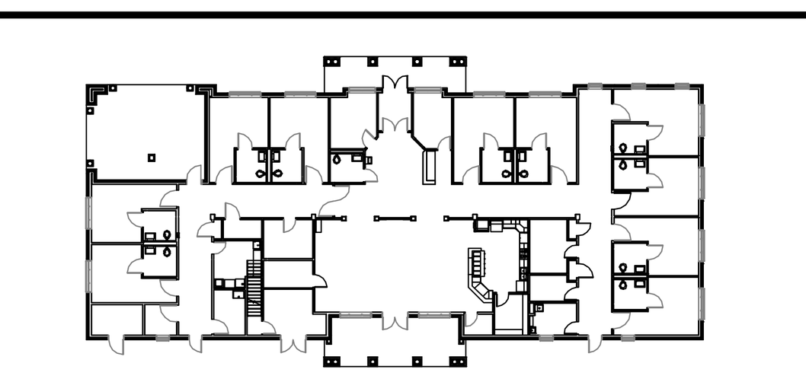
(THIS SHEET ONLY)

1. REFER TO ELECTRICAL ROOM PLAN FOR OTHER 10 BEDROOM BUILDING, THIS SHEET.
2. POWER FOR GAS MANIFOLD.
3. POWER FOR GAS ALARM PANEL.
4. POWER FOR MASTER GAS ALARM PANEL.
5. RECEPTACLE TO BE SERVED BY SHUNT TRIP BREAKER. SHUNT TRIP SHALL BE CONNECTED TO RANGE HOOD CONTROLS WITH 3#12,#12G;3/4"C.
6. RECEPTACLE UNDER SINK TO POWER MOTION DETECTOR FAUCET.
7. COORDINATE HEIGHT AND LOCATION OF RECEPTACLE FOR MICROWAVE WITH ARCHITECTURAL.
8. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF THIS OUTLET WITH PRE-MANUFACTURED FURNITURE FOR TV LOCATION.
9. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION OF THIS OUTLET WITH PRE-MANUFACTURED FURNITURE FOR DESK POWER.
10. COORDINATE WITH RANGE HOOD.



10 BED HOME POWER PLAN – ELECTRICAL

SCALE: 3/16" = 1'-0"



PLAN ORIENTATION TO BE CONSTRUCTED IN THIS PROJECT

NOTE : ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FLOOR PLAN DRAWINGS OF THE BUILDING ENVELOPE AND INTERIOR FOR THE 10 BEDROOM HOUSES ARE DRAWN OPPOSITE HAND (MIRROR IMAGE) OF THE REQUIRED ORIENTATION. REFERENCE THIS KEY PLAN AND/OR CIVIL AND LANDSCAPE DRAWINGS FOR THE PROPER BUILDING ORIENTATION AND ASSOCIATED WALKS, DRIVES, PARKING AND SITE UTILITIES.

BUILDING ORIENTATION KEY PLAN

FINAL SUBMITTAL

Revisions: | Date

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NORTH CAROLINA PROFESSIONAL ENGINEER RANDY B. PEACOCK

ARCHITECT/ENGINEERS:

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Drawing Title:	10 BED HOME POWER PLAN ELECTRICAL
Approved: Project Director	
Project Title:	FAYETTEVILLE CLC PROJECT ONE
Location:	FAYETTEVILLE, NC
Date:	February 5, 2015
Checked:	PEACOCK
Drawn:	BRADY
Project Number:	565-131
Building Number:	.
Drawing Number:	EP101
Dwg.	of .

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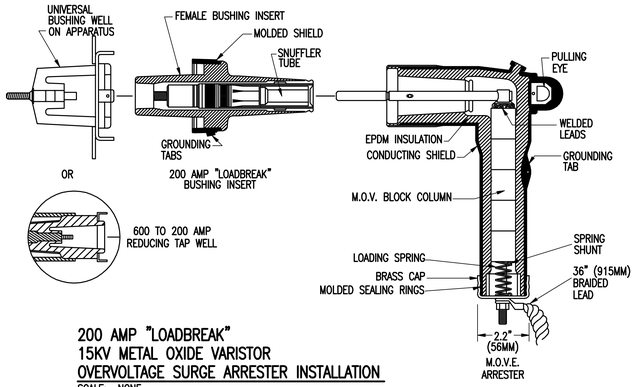
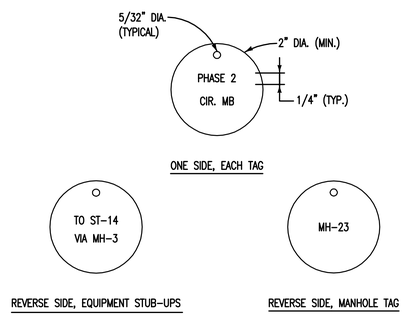
Department of Veterans Affairs



200 AMP "LOADBREAK" 15KV METAL OXIDE VARISTOR OVERVOLTAGE SURGE ARRESTER INSTALLATION

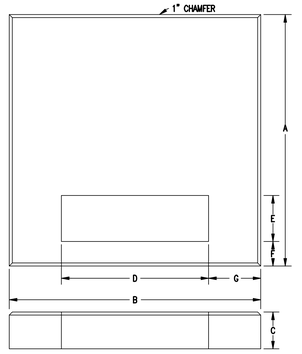
SCALE: NONE



CABLE TAGS – TYPICAL

SCALE: NONE

NOTE: SEE SPECIFICATIONS FOR MATERIAL, COLORS, AND MANNER OF INSTALLATION.

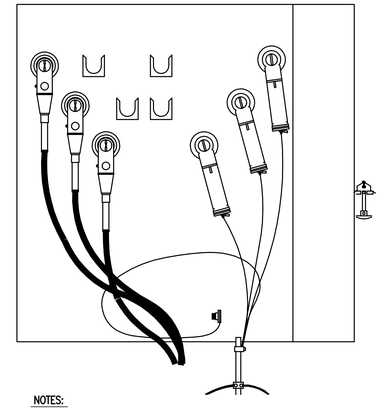


PAD NO.	A	B	C	D	E	F	G
P30	45	42	6	24	10	5	9
P10	48	48	8	28	29 3/4	9 1/8	10
P40	65	65	8	48	15	6	12
P70	85	85	8	48	15	8	18 1/2
P90	124	124	8	72	20	10	26

NOTES: (MINIMUMS)
1. CONCRETE: 3,000 PSI
2. STEEL: GRADE 60

TYPICAL PRECAST TRANSFORMER PADS

SCALE: NONE

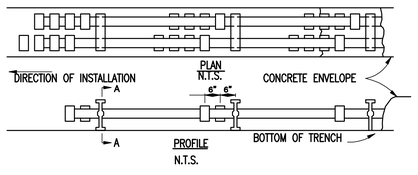


NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. WHEN POSSIBLE INSTALL ELBOW ARRESTERS ON DE-ENERGIZED SYSTEM.
3. ATTACH GROUND LEAD TO ARESTER AND HOTLINE CLAMP.
4. LUBRICATE ARRESTER INTERFACE.
5. THE ELBOW ARRESTER MUST BE INSTALLED AND REMOVED WITH A "SHOTGUN STICK".
6. THE ELBOW ARRESTER IS ENCASED IN A GROUNDED CASE AND MAY BE PLACED ANYWHERE IN THE PRIMARY COMPARTMENT. CARE SHOULD BE TAKEN SO AS NOT TO RESTRICT OTHER LOADBREAK DEVICES.

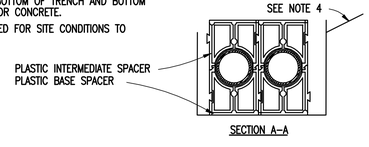
MATERIAL: ARRESTER, 9KV; FEED-THROUGH DEVICE; HOTLINE CLAMP; AND GREASE

U.D. CABLE ENTRANCE ARRANGEMENT FOR THREE PHASE PAD-MOUNTED TRANSFORMERS WITH ELBOW ARRESTERS

SCALE: NONE

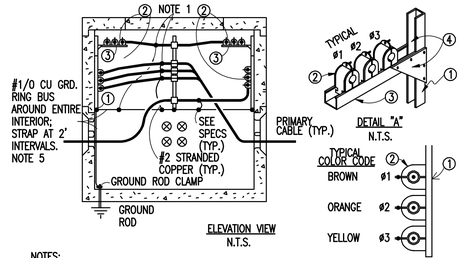


NOTES:
1. SIDES OF TRENCH TO BE PROPER WIDTH AND TRIMMED SMOOTH TO ALLOW A MINIMUM OF 3 INCHES SPACE BETWEEN SIDE OF TRENCH AND OUTSIDE OF DUCT FOR CONCRETE.
2. BOTTOM OF TRENCH TO BE GRADED SMOOTH AND SLOPED AS SHOWN ON THE DUCT LINE AND MANHOLE CONSTRUCTION DRAWINGS.
3. INSTALL BASE SPACER SO AS TO PROVIDE 3 INCHES SPACE BETWEEN BOTTOM OF TRENCH AND BOTTOM ROW OF DUCTS FOR CONCRETE.
4. SLOPE AS REQUIRED FOR SITE CONDITIONS TO AVOID CAVE-INS.



METHOD OF ASSEMBLING DUCTS IN TRENCH

SCALE: NONE

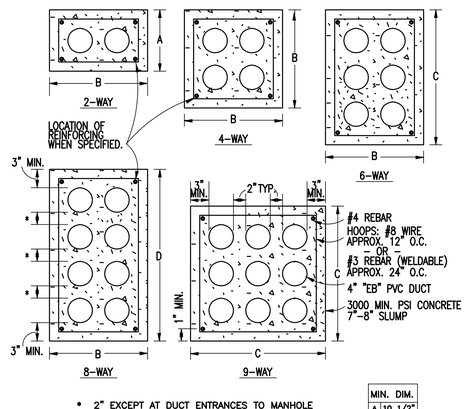


NOTES:
① BFP22SH POLYESTER-COATED FIBERGLASS CHANNEL, ANCHORED TO WALL.
② PORCELAIN CABLE CLAMP SIZED FOR CABLE, (NOTE 2) WITH GLASS-REINFORCED POLYURETHANE PIPE STRAP.
③ BFP-408-12 OR -14 (DEPENDING ON WIDTH OF ②) POLYESTER-COATED FIBERGLASS CHANNEL BRACKETS.
④ BFP202, BFP225 STAINLESS STEEL (TYPE 316) HARDWARE.

NOTE 1: CONCENTRIC NEUTRAL GROUND BOND. (SEE DETAIL PLATE)
NOTE 2: ALLOW FOR FIREPROOF WRAP WHEN APPLICABLE.
NOTE 3: CAT. NOS. REFER TO B-LINE. FOR APPROVED EQUALS, SEE SPECIFICATIONS. SUBMITTALS REQUIRED.
NOTE 4: ANY FIELD CUTS SHALL BE SEALED WITH MANUFACTURER'S RECOMMENDED SEALANT.
NOTE 5: BOND ALL NON-CURRENT-CARRYING METAL PARTS TO GRD. RING BUS, AND BOND BUS TO A 5/8"X10' COPPERWELD STEEL-DRIVEN GROUND ROD. SEE ALSO "GROUNDING DETAILS FOR PAD-MOUNT TRANSFORMER" FOR BONDING CABLES.

TYPICAL RACKING IN VAULTS

SCALE: NONE



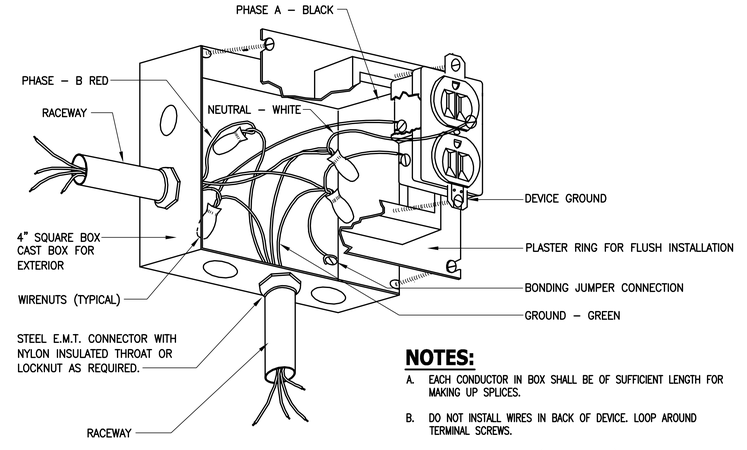
* 2" EXCEPT AT DUCT ENTRANCES TO MANHOLE OR VAULTS – TO BE 3" VERTICAL SPACING.

MIN. DIM.	
A	10 1/2"
B	17"
C	23 1/2"
D	30"

TYPICAL REINFORCING & DIMENSIONS CONCRETE ENCASED DUCT BANKS

SCALE: NONE

NOTE: OTHER CONFIGURATIONS TO BE SIMILAR.



NOTES:

A. EACH CONDUCTOR IN BOX SHALL BE OF SUFFICIENT LENGTH FOR MAKING UP SPLICES.
B. DO NOT INSTALL WIRES IN BACK OF DEVICE. LOOP AROUND TERMINAL SCREWS.
C. FACE OF PLASTER RING (WHERE UTILIZED) SHALL BE FLUSH WITH WALL.
D. FRONT OF DEVICE SHALL BE WITHIN 1/8" OF FINISHED WALL.

RECEPTACLE WIRING DETAIL

SCALE: NONE

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Department of Veterans Affairs

Revisions: Date

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL RANDY B. PEACOCK

ARCHITECT/ENGINEERS:

TOLAND MIZELL MOLNAR

590 MEANS ST NW ATLANTA GA 30318

Drawing Title: DETAILS - ELECTRICAL

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: RBP | Drawn: SJB

Project Number: 565-131

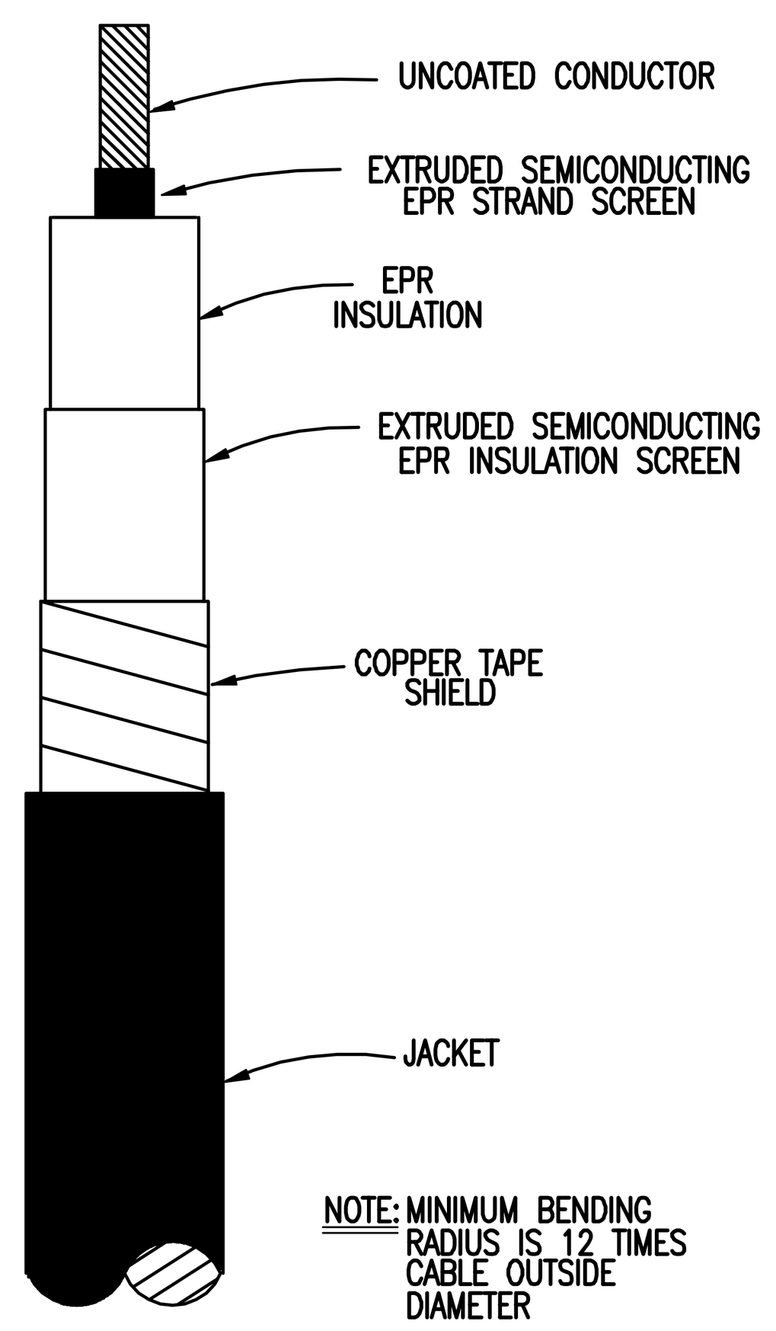
Building Number: .

Drawing Number: E501

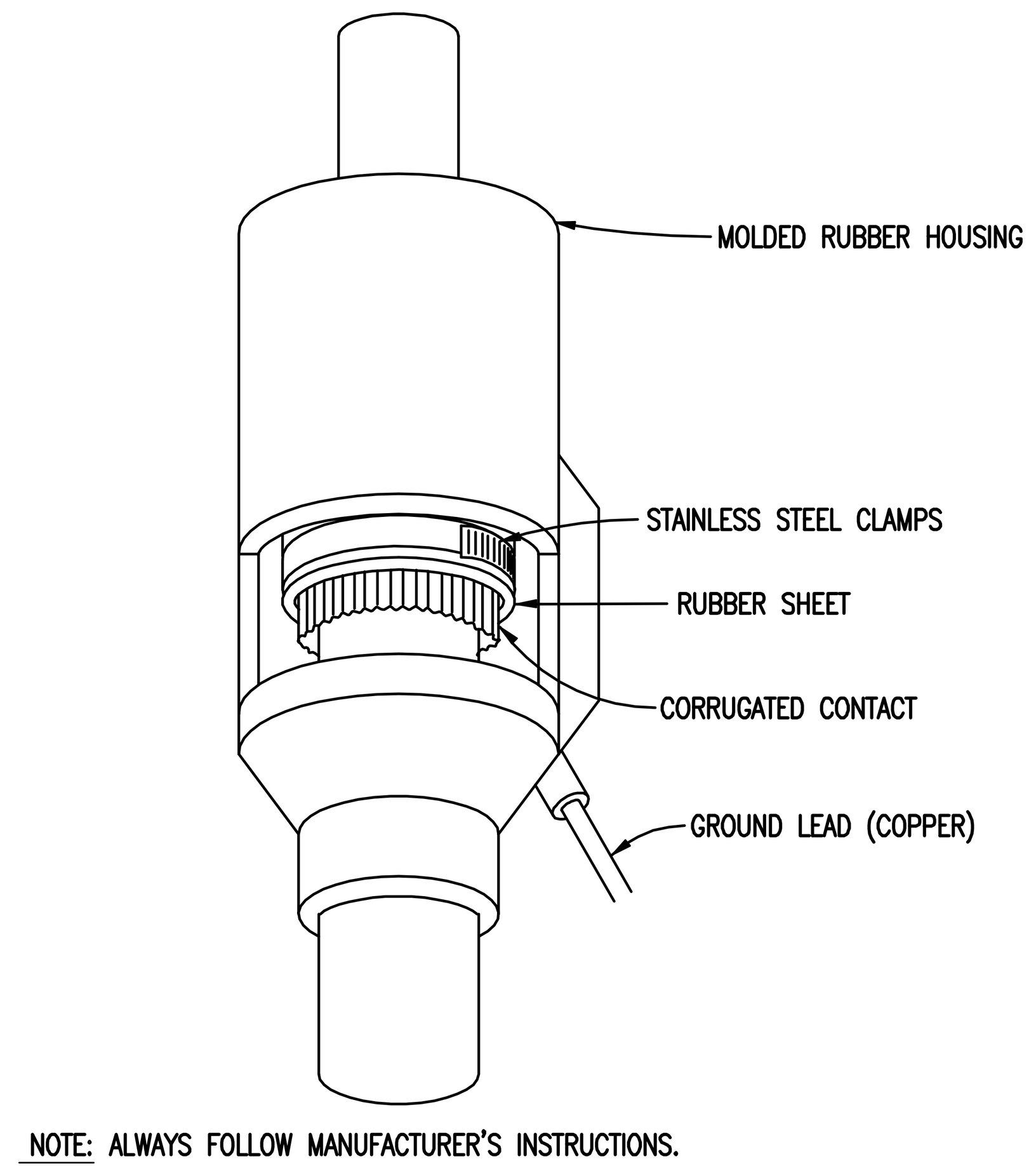
Dwg. _ of .

VA FORM 08-6231
CN 5119

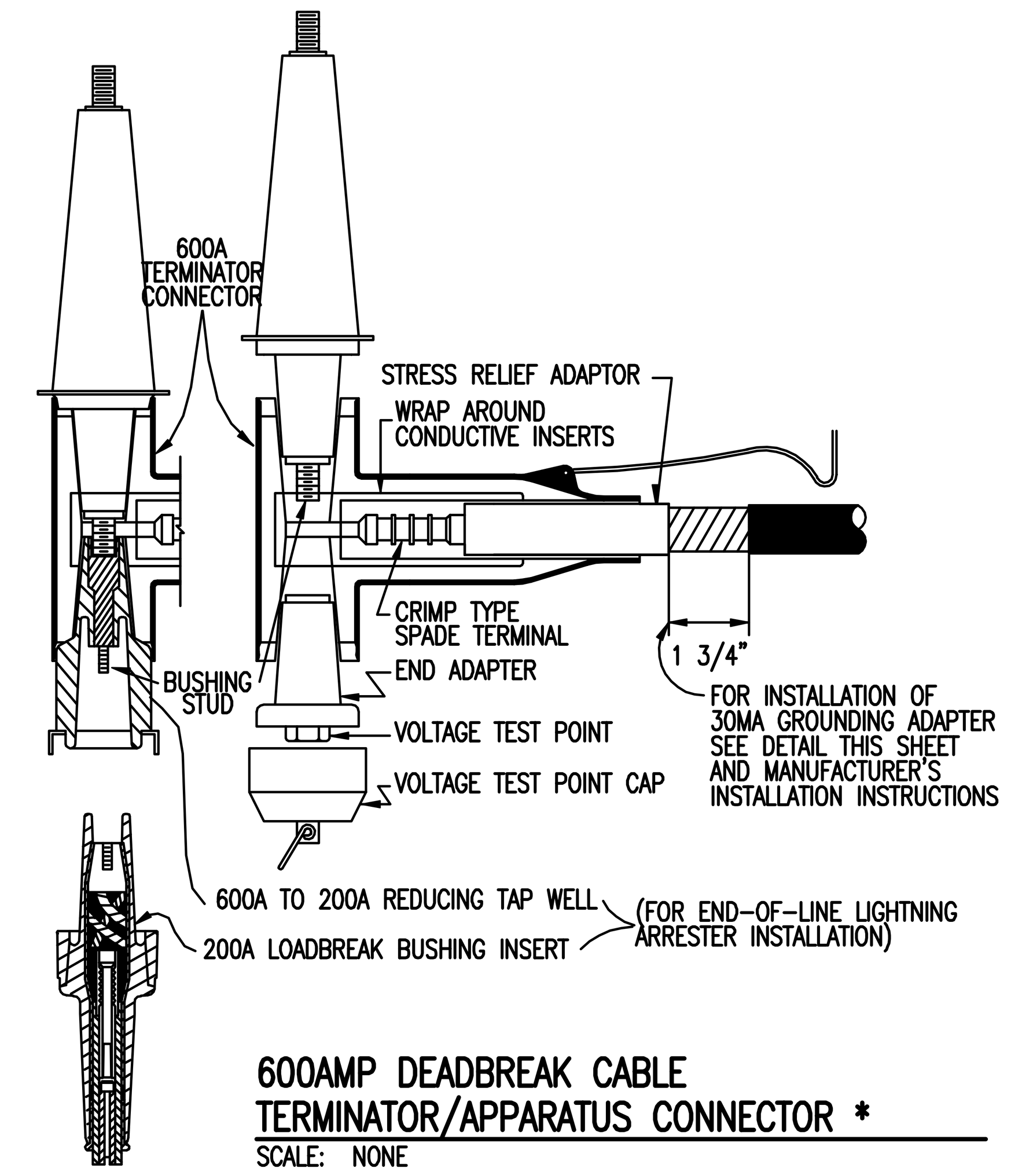
FILE NAME: N:\2013\13119-14 Fayetteville CLC\Drawings\13119 E501-1.dwg LAYOUT NAME: E501 PLOTTED: Monday, February 09, 2015 - 3:45pm



UD PRIMARY CABLE
METALLIC TAPE SHIELDED CABLE
SCALE: NONE

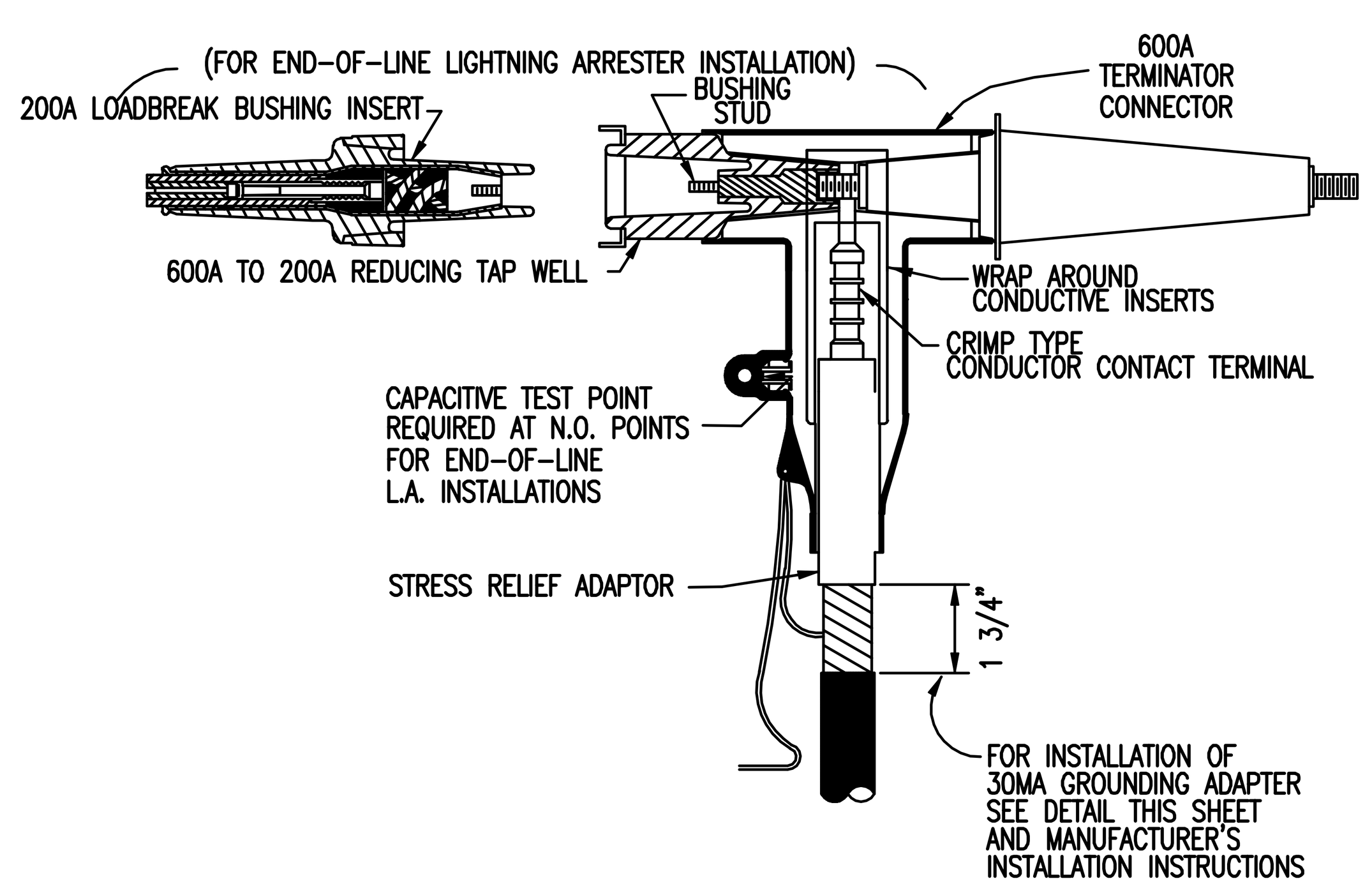


30 MA GROUNDING DEVICE
FOR METALLIC TAPE SHIELDED CABLE
SCALE: NONE



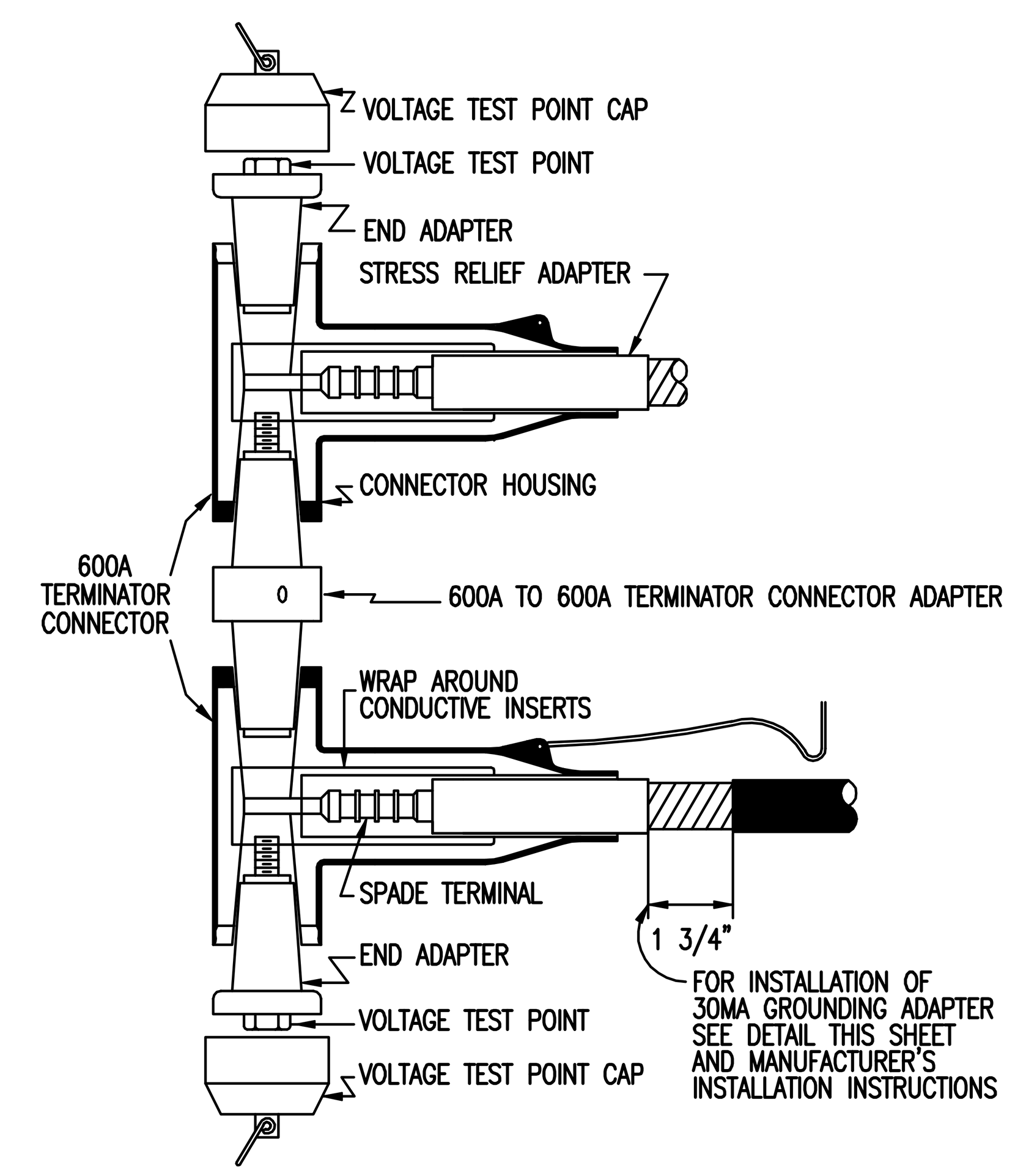
600AMP DEADBREAK CABLE
TERMINATOR/APPARATUS CONNECTOR *
SCALE: NONE

* FOR TAPE SHIELDED CABLE



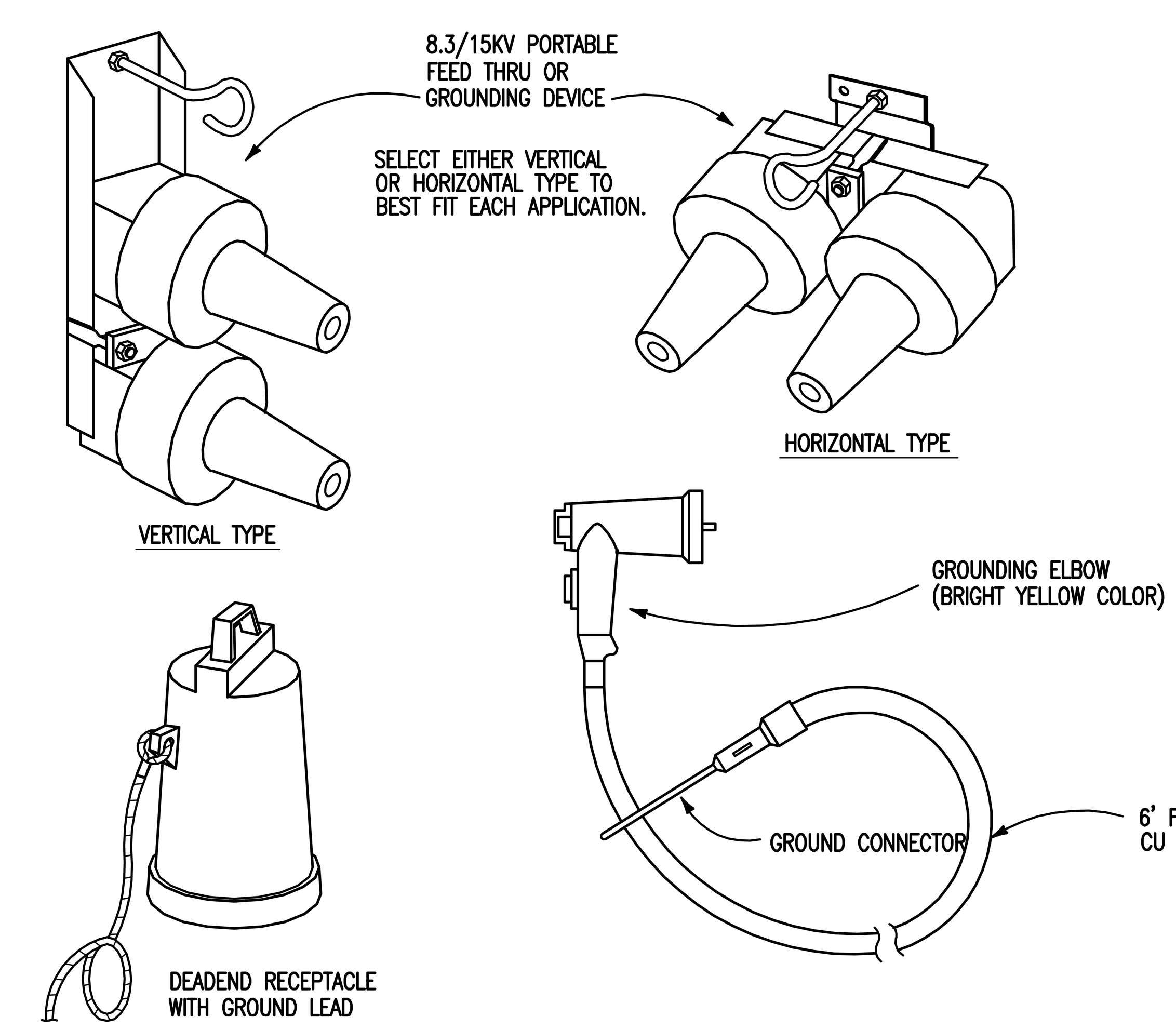
600AMP DEADBREAK CABLE
TERMINATOR/APPARATUS CONNECTOR * **
SCALE: NONE

* FOR TAPE SHIELDED CABLE
** WITH 600-200 AMP ADAPTOR FOR END-OF-LINE LIGHTNING ARRESTER



600/600 AMP
DEADFRONT CABLE TERMINATORS (SPLICE) *
SCALE: NONE

* FOR TAPE SHIELDED CABLE



ACCESSORIES FOR USE
WITH 15kV LOADBREAK FITTINGS
SCALE: NONE

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Revisions:	Date

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ARCHITECT/ENGINEERS:

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590 MEANS ST NW ATLANTA GA 30318

Drawing Title:	Project Title:	Project Number:
DETAILS - ELECTRICAL	FAYETTEVILLE CLC PROJECT ONE	565-131
Approved: Project Director	Location: FAYETTEVILLE, NC	Building Number: .
	Date: February 5, 2015 / Checked: RBP / Drawn: SJB	Drawing Number: E502
		Dwg. _ of .

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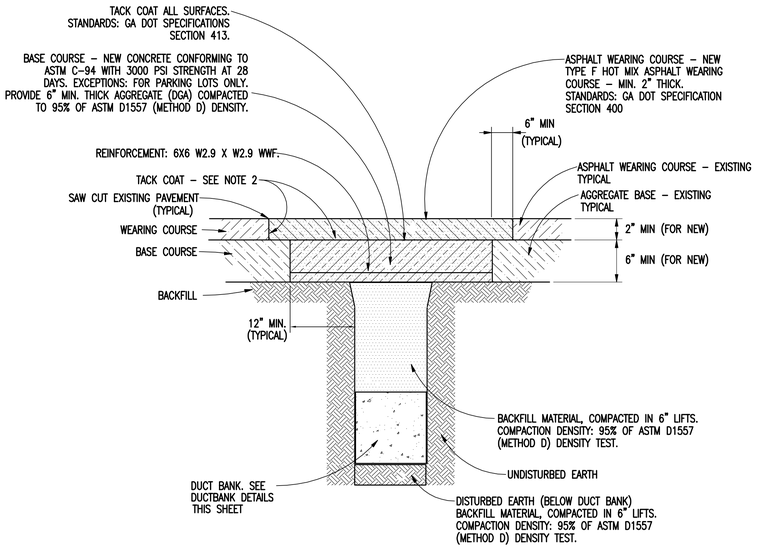


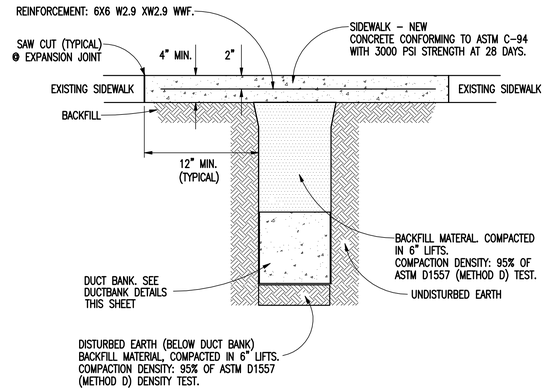
GENERAL NOTES:

(THIS DETAIL ONLY)

1. SEE GENERAL NOTES – TRENCH, THIS SHEET
2. TACK COAT – PROVIDE BETWEEN WEARING COURSE AND BASE COURSE & EXISTING PAVEMENT.

ASPHALT PAVEMENT REPAIR DETAIL

SCALE: NONE



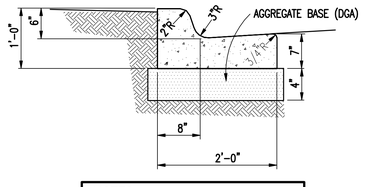
GENERAL NOTES:

(THIS DETAIL ONLY)

1. CONTROL JOINTS: CUT 1/4" GROVE 1" DEEP WIDTH OF SIDEWALK, SPACING BETWEEN JOINTS TO BE WIDTH OF SIDEWALK.
2. NEW TO EXISTING JOINT: COAT EXISTING CONCRETE WITH EPOXY RESIN MEETING THE REQUIREMENTS OF ASTM C881 TYPE II GRADE 2.
3. SEE GENERAL NOTES – TRENCH, THIS SHEET.
4. FINISH OF SIDEWALK PATCH TO MATCH EXISTING.

SIDEWALK REPAIR DETAIL

SCALE: NONE



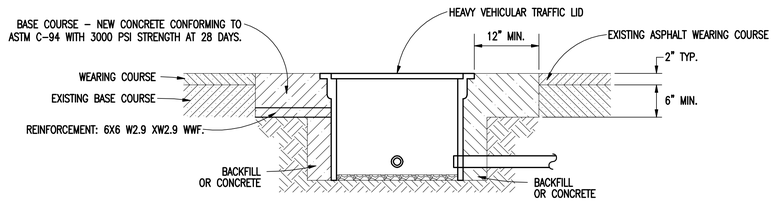
NOTES:

(THIS DETAIL ONLY)

1. REPAIRS MADE TO EXISTING CURB SHALL MATCH EXISTING SHAPE

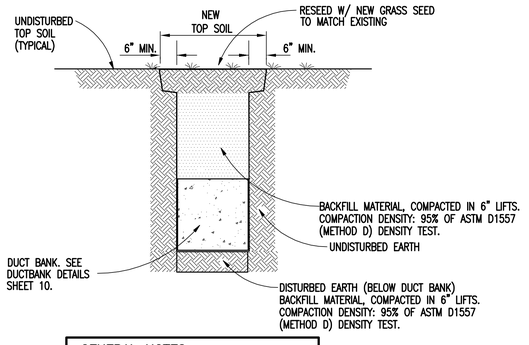
CURB REPAIR DETAIL

SCALE: NONE



POLYMER CONCRETE HANDHOLE IN VEHICULAR TRAFFIC AREA

SCALE: NONE



GENERAL NOTES:

(THIS DETAIL ONLY)

1. SEE GENERAL NOTES – TRENCH, THIS SHEET

TOPSOIL REPLACEMENT DETAIL

SCALE: NONE

GENERAL NOTES – TRENCH

A. WIDTH OF TRENCH, BASE COURSE & PAVEMENT VARIES BASED ON EXCAVATION METHOD USED BY THE CONTRACTOR. REPAIRS TO SURFACES FOR DIRECT BURIED CABLE OR CABLE IN CONDUIT ARE TO BE COMPLETED USING THE SAME METHODS FOR DUCTBANK INSTALLATIONS (SHOWN).

B. FOR DUCTBANK REFER TO DUCTBANK DETAILS THIS SHEET.

C. SLOPE SIDES AS REQUIRED FOR SITE CONDITIONS TO PREVENT CAVE-INS.

Revisions: Date

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL RANDY B. PEACOCK

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590 MEANS ST NW ATLANTA GA 30318

Drawing Title: DETAILS - ELECTRICAL

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: RBP | Drawn: SJB

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Drawing Number: E503

Dwg. _ of .

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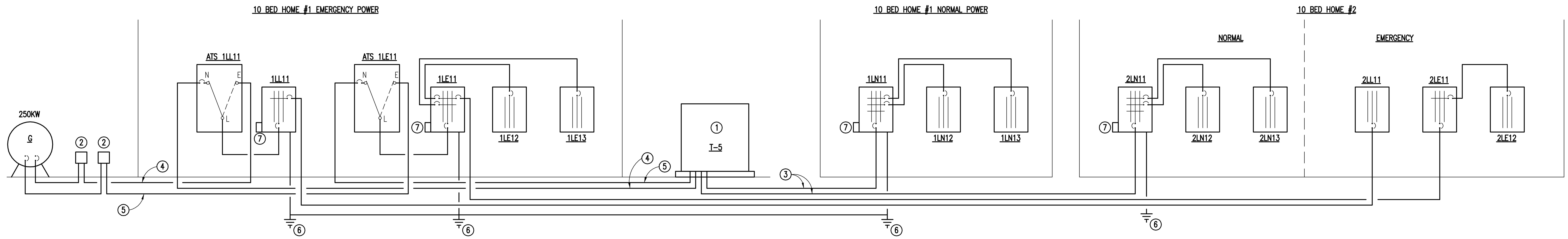
VA FORM 08-6231
CN 5119



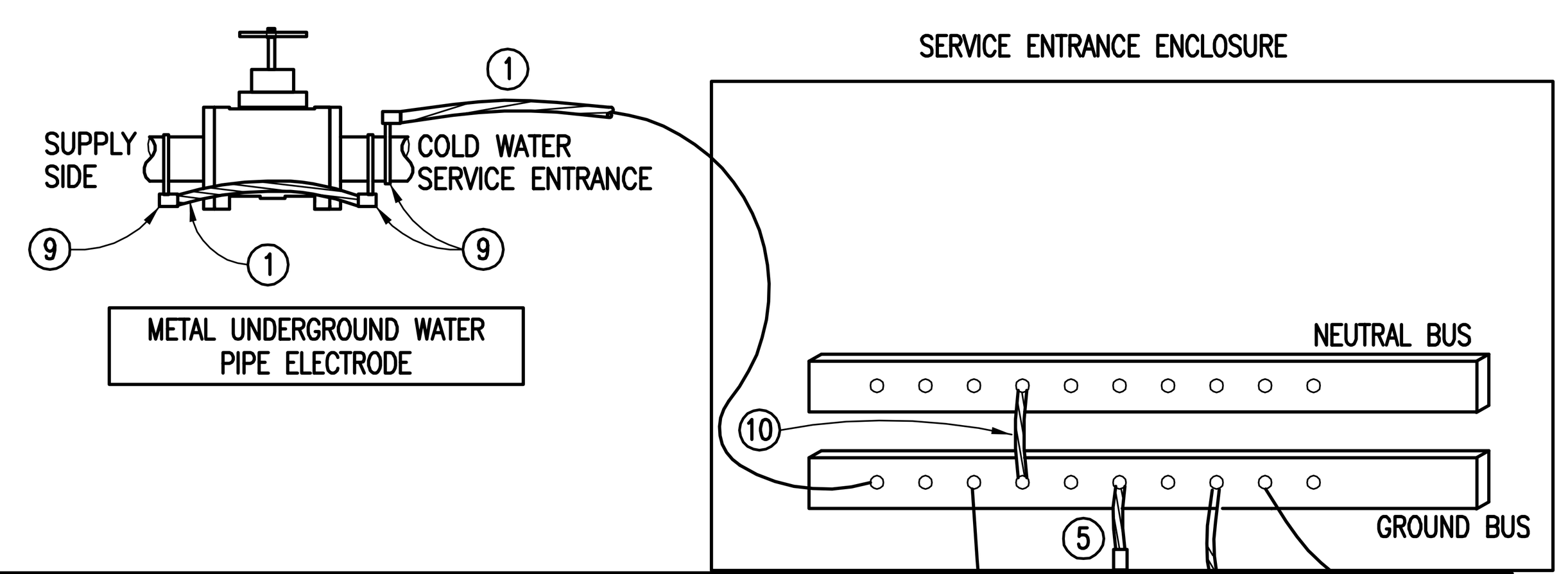
POWER RISER DIAGRAMS

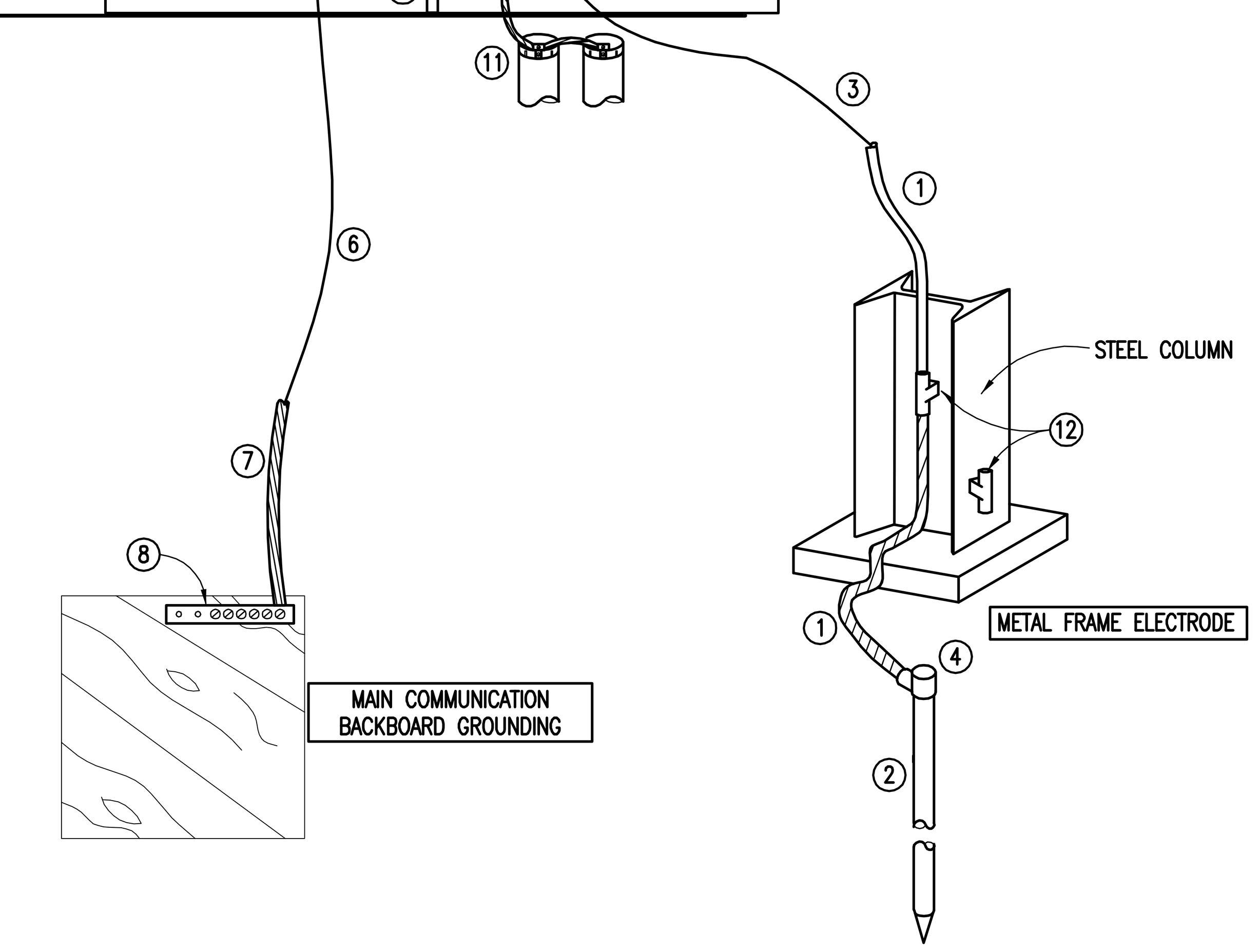
SCALE: NONE

NOTES:

(POWER RISERS ONLY)

1. UTILITY PAD-MOUNTED TRANSFORMER.
2. FEEDER SHALL ROUTETD THROUGH JUNCTION BOX AS SHOWN TO PROVIDE CONDUCTORS TO FUTURE PARALLELING EQUIPMENT. REFER TO SITE PLAN ES101 FOR EXACT LOCATION OF BOXES.
3. PROVIDE 2 SETS:4#350KCMIL;3"C.
4. PROVIDE 4#350KCMIL;3"C.
5. PROVIDE 2 SETS:4#600KCMIL;4"C.
6. REFER TO GROUNDING DETAIL, THIS SHEET.
7. TVSS UNIT. SEE SPECIFICATIONS, SECTION 264313.





NOTES:

(SERVICE GROUNDING DETAIL ONLY)

1. 2/0 BARE GROUNDING ELECTRODE CONDUCTOR.
2. 3-3/4"X10-0" COPPER CLAD STEEL GROUND ROD, DRIVEN 24" BELOW GRADE MINIMUM.
3. 2/0 BARE GROUNDING ELECTRODE CONDUCTOR IN 2"PVC-40.
4. EXOTHERMIC WELD CONNECTOR:
   TWO CABLES TO GROUND ROD, CADWELD #GT OR #GY.
   CABLE TO CABLE TEE, CADWELD #TA.
   ONE CABLE TO GROUND ROD, CADWELD #GR.
5. MAIN BONDING JUMPER, SIZED BY MANUFACTURER PER 250-95.
6. 2/0 BONDING JUMPER IN 2" PVC-40.
7. 2/0 BARE BONDING JUMPER.
8. 6 CONDUCTOR GROUND BUS, COPPER OR ALUMINUM RATED, ILSCO #PET SERIES OR EQUAL.
9. CAST BRONZE, UL LISTED GROUND CLAMP, O-Z/GEDNEY TYPE-G OR EQUAL.
10. BONDING JUMPER, SIZED BY EQUIPMENT MANUFACTURER PER NEC 250-102.
11. BONDING JUMPER TO GROUNDING BUSHING. AND BONDING JUMPERS FROM CONDUIT TO CONDUIT. ALL CONDUIT CONNECTED TO THE SERVICE ENTRANCE ENCLOSURE SHALL BE BONDED, SIZED PER NEC 250-95.
12. EXOTHERMIC WELD, CABLE TO FLAT STEEL, CADWELD #V V.

SERVICE GROUNDING DETAIL

SCALE: NONE

Revisions: | Date

CONSULTANTS:

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NORTH CAROLINA PROFESSIONAL ENGINEER RANDY B. PEACOCK

ARCHITECT/ENGINEERS:

TOLAND MIZELL MOLNAR
590 MEANS ST NW ATLANTA GA 30318

Drawing Title:	POWER AND SYSTEMS RISER DIAGRAMS ELECTRICAL
Approved: Project Director	
Project Title:	FAYETTEVILLE CLC PROJECT ONE
Location:	FAYETTEVILLE, NC
Date:	February 5, 2015
Checked:	RBP
Drawn:	TWG
Project Number:	565-131
Building Number:	.
Drawing Number:	E601
Dwg. of	

FINAL SUBMITTAL

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

Department of Veterans Affairs

PANEL DEFINITIONS				
BUILDING	VOLTAGE	POWER SYSTEM	LEVEL	PANEL #
B = BUILDING #	L = 120/208	N = NORMAL	1 = FIRST	1 = ONE
		L = LIFE SAFETY		2 = TWO
		C = CRITICAL		3 = THREE
		G = GENERATOR		4 = FOUR
				5 = FIVE
				6 = SIX
				ETC.

TYPICAL EQUIPMENT IDENTIFICATION NAMEPLATE
SCALE: NONE

PANEL 1LN11 SCHEDULE

600 AMP BUS | 600 AMP MCB | 208Y/120 VOLTS | 3PH, 4W, SN | MIN. 65 KAIC | SURFACE MOUNTED | SE RATED

CKT NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT NO.
1	DOAS-2	2	3#1/0 #8G	150	136.0	16.3	A	5.7	47.5	225	4#4/0 #4G	2-1/2	PANEL 1LN12	2
3					136.0	16.3	B	6.1	50.8					4
5					136.0	16.3	C	6.4	53.3					6
7	CU-1	1-1/4	3#3 #8G	80	66.0	7.9	A	20.0	166.7	225	4#4/0 #4G	2-1/2	PANEL 1LN13	8
9					66.0	7.9	B	19.5	162.2					10
11					66.0	7.9	C	17.9	149.2					12
13	EF-1,2,3	3/4	3#12	20	5.8	0.7	A						SPACE	14
15	WH-2	1-1/4	3#2 #8G	90	66.0	7.9	B							16
17					66.0	7.9	C							18
19					66.0	7.9	A						SPACE	20
21	UH-1	3/4	2#10 #10G	30	24.0	2.5	B							22
23					24.0	2.5	C							24
25	AHU-1/CU-2	3/4	2#12 #12G	15	12.0	1.3	A	0.5	4.2	20	3#12	3/4	EXISTING VAULT	26
27					12.0	1.3	B	0.5	4.2	20	3#12	3/4	EXISTING VAULT	28
29	SPARE			20			C	0.5	4.2	20	3#12	3/4	EXISTING VAULT	30
31	SPARE			20			A	0.8	7.7	20	3#10 #10G	3/4	SITE LIGHTING	32
33	SPARE			20			B	0.8	7.7					34
35	TVSS	1-1/4	3#4 #10G	60			C	0.8	7.7	20	3#12 #12G	3/4	SITE LIGHTING	36
37							A	0.8	7.7					38
39							B	0.8	7.7	20	3#10 #10G	3/4	SITE LIGHTING	40
41	SPARE DAMPERS	3/4	3#12	20	2.0	0.2	C	0.8	7.7					42
TOTAL AMPS (CONN. LOAD)				A:	515.9		B:	529.8		C:	510.8			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	515.9		B:	529.8		C:	510.8			
PANELBOARD OPTIONS:							PANELBOARD NOTES:							
1. PROVIDE 100% RATED MCB.							THIS PANEL IS ALSO 2LN11.							

PANEL 1LN12 SCHEDULE

225 AMP BUS | 225 AMP MLO | 208Y/120 VOLTS | 3PH, 4W, SN | MIN. 35 KAIC | SURFACE MOUNTED

CKT NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT NO.
1	RECEPTACLES	3/4	3#12	20	3.3	0.4	A			20			SPARE	2
3	RECEPTACLES	3/4	3#12	20	11.7	1.4	B			20			SPARE	4
5	RECEPTACLES	3/4	3#12	20	11.7	1.4	C			20			SPARE	6
7	RECEPTACLES	3/4	3#12	20	11.7	1.4	A			20			SPARE	8
9	RECEPTACLES	3/4	3#12	20	11.7	1.4	B			20			SPARE	10
11	RECEPTACLES	3/4	3#12	20	11.7	1.4	C			20			SPARE	12
13	RECEPTACLES	3/4	3#12	20	11.7	1.4	A			20			SPARE	14
15	RECEPTACLES	3/4	3#12	20	11.7	1.4	B			20			SPARE	16
17	RECEPTACLES	3/4	3#12	20	11.7	1.4	C			20			SPARE	18
19	RECEPTACLES	3/4	3#12	20	12.5	1.5	A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
25	RECEPTACLES	3/4	3#12	20	3.3	0.4	A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	RECEPTACLES	3/4	3#12	20	10.0	1.2	C			20			SPARE	30
31	SPARE			20			A			20			SPARE	32
33	SPARE			20			B			20			SPARE	34
35	SPARE			20			C			20			SPARE	36
37	ENG	3/4	3#12	20	5.0	0.6	A			20			SPARE	38
39	HOT BOX 6" LINE	3/4	3#10	20	15.8	1.9	B			20			SPARE	40
41	HOT BOX 2 1/2" LINE	3/4	3#10	20	8.3	1.0	C			20			SPARE	42
TOTAL AMPS (CONN. LOAD)				A:	47.5		B:	50.8		C:	53.3			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	47.5		B:	50.8		C:	53.3			
PANELBOARD OPTIONS:							PANELBOARD NOTES:							
							THIS PANEL IS ALSO 2LN12.							

PANEL 1LN13 SCHEDULE

225 AMP BUS | 225 AMP MCB | 208Y/120 VOLTS | 3PH, 4W, SN | MIN. 10 KAIC | FLUSH MOUNTED

CKT NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT NO.
1	RECEPTACLES	3/4	3#12	20	11.7	1.4	A			20			SPARE	2
3	RECEPTACLES	3/4	3#12	20	11.7	1.4	B			20			SPARE	4
5	RECEPTACLES	3/4	3#12	20	11.7	1.4	C			20			SPARE	6
7	RECEPTACLES	3/4	3#12	20	11.7	1.4	A			20			SPARE	8
9	RECEPTACLES	3/4	3#12	20	11.7	1.4	B	1.0	8.0	20	3#12	3/4	RANGE HOOD	10
11	RECEPTACLES	3/4	3#12	20	11.7	1.4	C	1.8	15.0	20	3#12 #12G	3/4	STEAM TABLE	12
13	RECEPTACLES	3/4	3#12	20	11.7	1.4	A	1.8	15.0					14
15	RECEPTACLES	3/4	3#12	20	11.7	1.4	B	1.8	15.0					16
17	RECEPTACLES	3/4	3#12	20	11.7	1.4	C	1.8	15.0	20	3#12 #12G	3/4	STEAM TABLE	18
19	RECEPTACLES	3/4	3#12	20	11.7	1.4	A	1.8	15.0					20
21	RECEPTACLES	3/4	3#12	20	11.7	1.4	B	1.8	15.0					22
23	RECEPTACLES	3/4	3#12	20	11.7	1.4	C	2.0	19.2	25	2#10 #10G	3/4	HOT FOOD TABLE	24
25	RECEPTACLES	3/4	3#12	20	5.8	0.7	A	2.0	19.2					26
27	SPARE			20			B	1.6	15.4	25	2#10 #10G	3/4	WALL OVEN	28
29	RECEPTACLES	3/4	3#12	20	5.0	0.6	C	1.6	15.4					30
31	RECEPTACLES	3/4	3#12	20	5.0	0.6	A	4.5	37.5	50	2#6 #10G	1	RANGE	32
33	RECEPTACLES	3/4	3#12	20	8.3	1.0	B	4.5	43.3					34
35	RECEPTACLES	3/4	3#12	20	12.5	1.5	C						SHUNT TRIP	36
37	RECEPTACLES	3/4	3#12	20	12.5	1.5	A	1.5	12.5	20	3#12	3/4	MICROWAVE	38
39	DISHWASHER	3/4	3#12	20	8.3	1.0	B	1.0	8.3	20	3#12	3/4	FREEZER	40
41	RECEPTACLES	3/4	3#12	20	12.5	1.5	C	1.5	12.5	20	3#12	3/4	RECEPTACLES	42
TOTAL AMPS (CONN. LOAD)				A:	166.7		B:	162.2		C:	149.2			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	166.7		B:	162.2		C:	149.2			
PANELBOARD OPTIONS:							PANELBOARD NOTES:							
							THIS PANEL IS ALSO 2LN13.							

PANEL 1LL11 SCHEDULE

200 AMP BUS | 200 AMP MCB | 208Y/120 VOLTS | 3PH, 4W, SN | MIN. 35 KAIC | SURFACE MOUNTED

CKT NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT NO.
1	LIGHTING	3/4	3#12	20	15.5	1.9	A	1.3	11.1	20	3#12	3/4	EXTERIOR LIGHTING	2
3	LIGHTING	3/4	3#12	20	12.0	1.4	B	0.6	5.0	20	3#12	3/4	MEZZANINE LIGHTING	4
5	LIGHTING	3/4	3#12	20	11.5	1.4	C			20			SPARE	6
7	LIGHTING	3/4	3#12	20	10.4	1.3	A			20			SPARE	8
9	LIGHTING	3/4	3#12	20	5.4	0.7	B			20			SPARE	10
11	LIGHTING	3/4	3#12	20	12.1	1.5	C			20			SPARE	12
13	LIGHTING	3/4	3#12	20	5.8	0.7	A			20			SPARE	14
15	LIGHTING	3/4	3#12	20	5.8	0.7	B			20			SPARE	16
17	SPARE			20			C			20			SPARE	18
19	SPARE			20			A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
25	SPARE			20			A			20			SPARE	26
27	SPARE			20			B			20			SPARE	28
29	SPARE			20			C			20			SPARE	30
31	SPARE			20			A			20			SPARE	32
33	SPARE			20			B			20			SPARE	34
35	TVSS	1-1/4	3#4 #10G	60			C			20			SPARE	36
37							A	5.1	42.8	100	3#1/0 #6G	2	PANEL 2LL11	38
39							B	3.4	28.3				WILL HAVE A AIC OF 10000	40
41	FACP	3/4	3#12	20	8.3	1.0	C	3.8	31.9					42
TOTAL AMPS (CONN. LOAD)				A:	85.7		B:	56.5		C:	63.8			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	85.7		B:	56.5		C:	63.8			
PANELBOARD OPTIONS:							PANELBOARD NOTES:							
							THIS PANEL IS ALSO 2LL11 EXCEPT FOR THE BREAKER SHOWN SERVING PANEL 2LL11.							

PANEL 1LE11 SCHEDULE

800 AMP BUS | 800 AMP MCB | 208Y/120 VOLTS | 3PH, 4W, SN | MIN. 65 KAIC | SURFACE MOUNTED

CKT NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT NO.
1	PANEL 1LE12	3	4#350 #3G	300	308.4	37.1	A			300			SPARE	2
3					267.2	32.1	B							4
5					243.3	29.2	C							6
7	PANEL 2LE11	3	4#350 #3G	300	308.4	37.1	A						SPACE	8
9	WILL HAVE A AIC OF 10000				267.2	32.1	B						SPACE	10
11					243.3	29.2	C						SPACE	12
13	SPACE												SPACE	14
15	SPACE						A						SPACE	16
17	SPACE						B						SPACE	18
19	SPACE						C						SPACE	20
21	SPACE						A						SPACE	22
23	SPACE						B						SPACE	24
25	SPACE						C						SPACE	26
27	SPACE						A						SPACE	28
29	SPACE						B						SPACE	30
31	SPACE						C						SPACE	32
33	SPACE						A						SPACE	34
35	SPACE						B						SPACE	36
37	TVSS	1-1/4	3#4 #10G	60			A	1.2	10.0	20	12	1/2	GENERATOR JACKET HEATER	38
39							B	0.2	2.0	20	12	1/2	GENERATOR BATTERY CHARGER	40
41							C	0.2	0.2	20	12	1/2	GENERATOR SERVICE RECEPTACLE	42
TOTAL AMPS (CONN. LOAD)				A:	628.8		B:	536.3		C:	486.7			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	628.8		B:	536.3		C:	486.7			
PANELBOARD OPTIONS:							PANELBOARD NOTES:							

PANEL 1LE12 SCHEDULE

400 AMP BUS | 300 AMP MCB | 208Y/120 VOLTS | 3PH, 4W, SN | MIN. 35 KAIC | SURFACE MOUNTED

CKT NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT NO.
1	RECEPTACLES	3/4	3#12	20	10.0	1.2	A	4.1	34.0	40	3#8 #10G	3/4	HP-2	2
3	RECEPTACLES	3/4	3#10	20	8.3	1.0	B	4.1	34.0					4
5	RECEPTACLES	3/4	3#10	20	8.7	0.8	C	4.1	34.0					6
7	RECEPTACLES	3/4	3#10	20	12.5	1.5	A	1.0	10.0	15	2#12 #12G	3/4	FCU'S	8
9	RECEPTACLES	3/4	3#12	20	8.3	1.0	B	1.0	10.0					10
11	RECEPTACLES	3/4	3#10	20	10.0	1.2	C	0.3	3.0	15	2#12 #12G	3/4	BRANCH CONTROLLER	12
13	RECEPTACLES	3/4	3#10	20	8.7	0.8	A	0.3	3.0				HP-2	14
15	RECEPTACLES	3/4	3#12	20	8.7	0.8	B	4.0	33.3	45	3#6 #10G	1	WH-1	16
17	RECEPTACLES	3/4	3#12	20	12.5	1.5	C	4.0	33.3					18
19	RECEPTACLES	3/4	3#12	20	12.5	1.5	A	4.0	33.3					20
21	RECEPTACLES	3/4	3#12	20	12.5	1.5	B	0.2	2.0	20	12	3/4	RP-1	22
23	RECEPTACLES	3/4	3#12	20	12.5	1.5	C	1.3	11.0	20	3#12 #12G	3/4	VP-1	24
25	RECEPTACLES	3/4	3#12	20	55.8	6.7	A	1.3	11.0					26
27	RECEPTACLES	3/4	3#12	20	8.7	0.8	B	1.3	11.0					28
29	RECEPTACLES	3/4	3#10	20	12.5	1.5	C	1.7	14.0	20	3#12 #12G	3/4	AC-1	30
31	RECEPTACLES	3/4	3#10	20	12.5	1.5	A	1.7	14.0					32
33	RECEPTACLES	3/4	3#10	20	12.5	1.5	B	1.7	14.0					34
35	RECEPTACLES	3/4	3#10	20	12.5	1.5	C	0.6	5.0	20	12	3/4	AC-1	36
37	RECEPTACLES	3/4	3#10	20	12.5	1.5	A	7.1	59.2	100	4#1/0 #8G	2	PANEL 1LE13	38
39	RECEPTACLES	3/4	3#10	20	12.5	1.5	B	7.2	60.0				ALSO PANEL 2LE12	40
41	RECEPTACLES	3/4	3#12	20	1.7	0.2	C	4.8	40.0				2LE12 WILL HAVE A AIC OF 10000	42
43	RECEPTACLES	3/4	3#12	20	8.7	0.8	A	0.6	5.0	20	3#12	3/4	GAS MANIFOLD PANEL	44
45	RECEPTACLES	3/4	3#12	20	1.7	0.2	B	0.6	5.0	20	3#12	3/4	GAS ALARM PANEL	46
47	SPARE			20			C	0.6	5.0	20	3#12	3/4	GAS MASTER ALARM PANEL	48
49	WASHER	3/4	3#12	20	12.5	1.5	A			20			SPARE	50
51	DRYER	3/4	2#8 #10G	40	30.0	3.6	B			20			SPARE	52
53					30.0	3.6	C			20			SPARE	54
TOTAL AMPS (CONN. LOAD)				A:	309.4		B:	287.2		C:	243.3			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	309.4		B:	287.2		C:	243.3			
PANELBOARD OPTIONS:							PANELBOARD NOTES:							
							THIS PANEL IS ALSO 2LE11.							

PANEL 1LE13 SCHEDULE

100 AMP BUS | 100 AMP MCB | 208Y/120 VOLTS | 3PH, 4W, SN | MIN. 14 KAIC | FLUSH MOUNTED

CKT NO.	LOAD DESCRIPTION	COND SIZE	WIRE SIZE	BKR TRIP	AMPS	KVA	PH	KVA	AMPS	BKR TRIP	WIRE SIZE	COND SIZE	LOAD DESCRIPTION	CKT NO.
1	RECEPTACLES	3/4	3#12	20	15.0	1.8	A	0.5	4.2	20	3#12	3/4	LIGHTING	2
3	RECEPTACLES	3/4	3#12	20	15.0	1.8	B	0.6	5.0	20	3#12	1/2	ACCESS CONTROL	4
5	RECEPTACLES	3/4	3#12	20	15.0	1.8	C	0.6	5.0	20	3#12	1/2	NURSE CALL	6
7	RECEPTACLES	3/4	3#12	20	15.0	1.8	A	0.6	5.0	20	3#12	1/2	PA SYSTEM	8
9	RECEPTACLES	3/4	3#12	20	15.0	1.8	B	1.3	10.0	20	3#12	1/2	CCTV	10
11	RECEPTACLES	3/4	3#12	20	15.0	1.8	C	0.6	5.0	20	3#12	1/2	CATV	12
13	RECEPTACLES	3/4	3#12	20	15.0	1.8	A	0.6	5.0	20	3#12	1/2	ANIT-WANDER	14
15	RECEPTACLES	3/4	3#12	20	15.0	1.8	B			20			SPARE	16
17	SPARE			20			C			20			SPARE	18
19	SPARE			20			A			20			SPARE	20
21	SPARE			20			B			20			SPARE	22
23	SPARE			20			C			20			SPARE	24
TOTAL AMPS (CONN. LOAD)				A:	59.2		B:	60.0		C:	40.0			
TOTAL AMPS (FEEDTHRU)				A:			B:			C:				
TOTAL AMPS (CONN. LOAD + FEED-THRU)				A:	59.2		B:	60.0		C:	40.0			
PANELBOARD OPTIONS:							PANELBOARD NOTES:							
							THIS PANEL IS ALSO 2LN12.							

	1LN11	1LE11
	1LN12	1LE12
	1LN13	1LE13
	1LL11	

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Department of Veterans Affairs

Revisions: | Date

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — RANDY B. PEACOCK

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Drawing Title: NORMAL POWER PANELBOARD SCHEDULES ELECTRICAL

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: RBP | Drawn: TWG

Project Number: 565-131

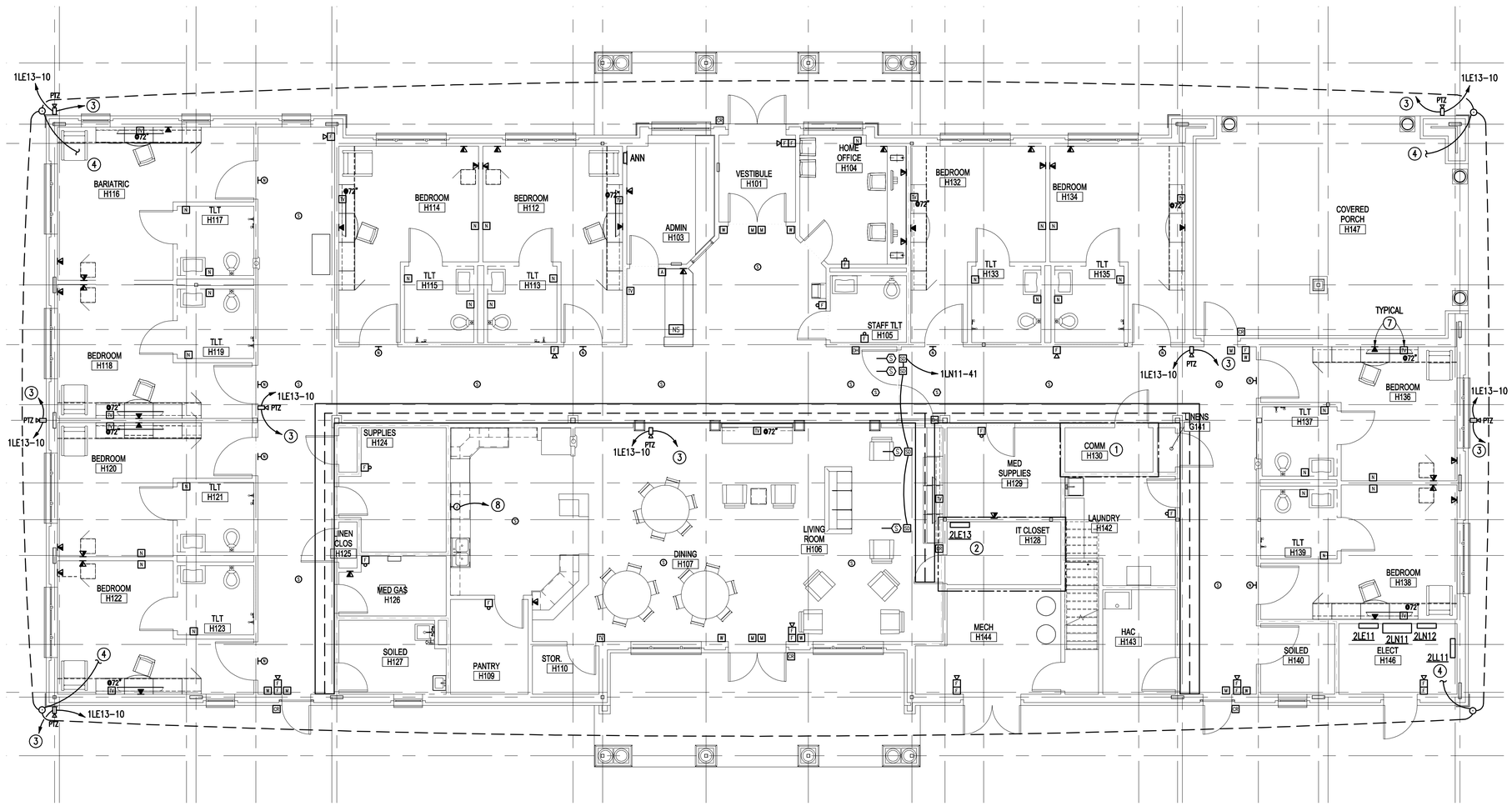
Building Number: .

Drawing Number: E602

Dwg. of .

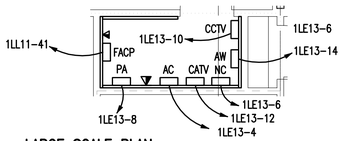
VA FORM 08-6231
CN 5119

FILE NAME: I:\A2013\13119-VA Fayetteville CLC\Drawings\13119 E602-A1502.dwg LAYOUT NAME: E602 PLOTTED: Monday, February 02, 2015 - 4:09pm



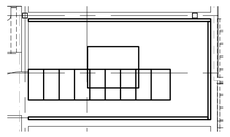
10 BED HOME SPECIAL SYSTEMS PLAN – ELECTRICAL

SCALE: 3/16" = 1'-0"



LARGE SCALE PLAN COMM ROOM H130

SCALE: 1/4" = 1'-0"



LARGE SCALE PLAN IT CLOSET H128

SCALE: 1/4" = 1'-0"

NOTES:

(THIS SHEET ONLY)

1. REFER TO LARGE SCALE PLAN COMM ROOM H130, THIS SHEET.
2. REFER TO LARGE SCALE PLAN IT CLOSET H128, THIS SHEET.
3. ROUTE TO CCTV MULTI-OUTPUT POWER SUPPLY IN H128.
4. GROUND ROD AND DOWN CONDUCTORS TO CONNECT TO AIR TERMINALS ON ROOF. ROUTE CONDUCTORS UP INSIDE OF BUILDING AND THROUGH SECOND FLOOR DECK. SEAL PENETRATIONS AS NECESSARY. SEE LIGHTNING PROTECTION NOTE, THIS SHEET.
5. NURSE CALL STATION. PROVIDE 4-GANG JUNCTION BOX, WITH 1"C STUBBED OUT ABOVE CEILING, 3/4"C TO BED AND PILLOW SPEAKER CONTROLS BOX, AND 3/4"C TO BED LIGHTING CONTROLLER JUNCTION BOX. PROVIDE 3/4"C TO NURSE CALL DEVICES. SEE GENERAL NOTES, THIS SHEET.
6. 1-37-PIN BED AND 1-37-PIN PILLOW SPEAKER CONNECTOR IN DOUBLE GANG BOX.
7. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH PRE-MANUFACTURED FURNITURE PRIOR TO ROUGH-IN.
8. PROVIDE CONNECTION FROM RANGE HOOD CONTROL UNIT TO FIRE ALARM CONTROL PANEL AND PROVIDE 3#12;3/4"C TO SHUNT TRIP OF RANGE BREAKER.

GENERAL NOTES:

(SPECIAL SYSTEMS SHEETS ONLY)

A. FOR EACH VOICE/DATA OUTLET SHOWN ON THE DRAWINGS, CONTRACTOR IS TO PROVIDE A SINGLE GANG JUNCTION BOX AT 18" A.F.F. UNLESS NOTED OR DESCRIBED OTHERWISE, AND 3/4" CONDUIT TO CABLE TRAY. SEE DETAIL SHEET. JACKS SHALL BE PROVIDED AS IDENTIFIED AND CABLE INSTALLED TO IT EQUIPMENT ROOM 7C163.

B. VOICE JACKS SHOWN ADJACENT TO BED LOCATIONS WILL BE PROVIDED IN A BED LOCATOR SYSTEM. CONTRACTOR SHALL PROVIDE JUNCTION BOX, MATCHING THE BED LOCATOR VENDOR'S TEMPLATES AND CONNECT TO DEVICES AS SHOWN. SEE BED LOCATOR DETAIL, SHEET E5.02.

C. SEE ARCHITECTURAL SHEETS A4.11 AND A4.12 FOR ROOM ELEVATIONS.

LIGHTNING PROTECTION NOTE:

PROVIDE AIR TERMINALS ALONG PEAK OF ROOF @20' ON CENTER. PROVIDE AIR TERMINAL ROOF CONDUCTORS, DOWN CONDUCTORS, GROUND RODS, AND GROUND LOOP CONDUCTORS AS NECESSARY TO MEET LPI-175, NFPA-780, UL-96, AND UL-96A. PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM WITH LPI SYSTEM CERTIFICATION AND UP MASTER LABEL. REFER TO SPECIFICATIONS SECTION 264100 FOR ADDITIONAL INFORMATION. PROVIDE COMPLETE SHOP DRAWINGS BEFORE BEGINNING WORK. COORDINATE NEW EQUIPMENT WITH ROBERT F. SCHULTZ WITH SOUTH CAROLINA LIGHTING PROTECTION INC., AT 843-388-0045.

FIRE ALARM SYSTEM NOTE:

CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL BE EDWARDS EST3, NO EQUAL. CONTACT KEITH ASSANTE AT 919-359-2239 WITH EDWARDS ELECTRONICS SYSTEMS FOR EQUIPMENT AND INSTALLATION. CONTRACTOR SHALL PROVIDE BOXES AND CONDUIT TO ABOVE CABLE TRAY FOR ALL DEVICES SHOWN ON THE PLANS. NEW FIRE ALARM SYSTEMS SHALL BE COMPATIBLE WITH THE EXISTING CAMPUS EDWARDS FIRE ALARM SYSTEM. NEW FIRE ALARM PANELS SHALL BE PROVIDED WITH ALL NECESSARY EQUIPMENT TO CONNECT TO THE NETWORK AND FIRE ALARM INSTALLER SHALL PROVIDE ALL NEW HARDWARE AND SOFTWARE FOR EXISTING SYSTEM TO MONITOR NEW FIRE ALARM IN THIS BUILDING.

PA SYSTEM NOTE:

CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL PA SYSTEM. PA SYSTEM SHALL BE TYCO, NO EQUAL. CONTACT STEVE WRIGHT AT 910-397-2557 WITH TYCO INTEGRATED SECURITY SYSTEMS FOR EQUIPMENT AND INSTALLATION. CONTRACTOR SHALL PROVIDE BOXES AND CONDUIT TO ABOVE CABLE TRAY FOR ALL DEVICES SHOWN ON THE PLANS. SYSTEM SHALL HAVE INTERFACE WITH PHONE SYSTEM TO ALLOW PAGING VIA PHONE HEADSETS. THE INSTALLER SHALL PROVIDE ALL EQUIPMENT NECESSARY TO CONNECT THIS SYSTEM TO THE NETWORK AND TIE IT INTO THE EXISTING LYNX SYSTEM THAT IS SERVING THIS CAMPUS. REFER TO SPECIFICATION SECTION 27-51-16 FOR ALL OTHER INFORMATION ON THIS SYSTEM.

ACCESS CONTROL NOTE:

CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL ACCESS CONTROL SYSTEM. ACCESS CONTROL SYSTEM SHALL BE TYCO, NO EQUAL. CONTACT STEVE WRIGHT AT 910-397-2557 WITH TYCO INTEGRATED SECURITY SYSTEMS FOR EQUIPMENT AND INSTALLATION. CONTRACTOR SHALL PROVIDE BOXES AND CONDUIT TO ABOVE CABLE TRAY FOR ALL DEVICES SHOWN ON THE PLANS. THE INSTALLER SHALL PROVIDE ALL EQUIPMENT NECESSARY TO CONNECT THIS SYSTEM TO THE NETWORK AND TIE IT INTO THE EXISTING LYNX SYSTEM THAT IS SERVING THIS CAMPUS. SYSTEM DEVICES AND CARDS SHALL BE COMPATIBLE WITH THE EXISTING CAMPUS SYSTEM.

TV AND CLIENT WIFI SYSTEMS NOTE:

CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL CATV AND WIFI SYSTEM. COORDINATE WITH TIME WARNER FOR REQUIREMENTS OF NEW SYSTEM. CONTACT JIMMY REID AT 910-401-5178 WITH TIME WARNER FOR EQUIPMENT AND INSTALLATION. CONTRACTOR SHALL PROVIDE BOXES AND CONDUIT TO ABOVE CABLE TRAY FOR ALL DEVICES SHOWN ON THE PLANS. CONTRACTOR SHALL OBTAIN INTERIOR CABLE FROM TIME WARNER AND INSTALL FROM BOXES TO HEAD END LOCATION. PROVIDE 12'SLACK CABLE AT EACH BOX AND 6' SLACK CABLE AT HEAD END LOCATION. PROVIDE DEDICATED HOME RUN FROM EACH OUTLET. ALL HEAD END EQUIPMENT, INTERIOR AND EXTERIOR TERMINATIONS AND ALL MODIFICATIONS TO EXTERIOR DISTRIBUTION SHALL BE MADE BY TIME WARNER.

ANTI-WANDER SYSTEM NOTE:

CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL ANTI-WANDERING SYSTEM. BASIS OF DESIGN IS A WANDERGUARD MODEL 16901. THE SYSTEM WILL CONSIST OF SENSORS, MAGNETIC LOCKS AND CONTROL UNIT AT EXTERIOR DOORS, A CONTROL PANEL IN THE COMMUNICATIONS ROOM WITH AN ANNUNCIATOR AT THE ENTRY DESK AND 12 WANDERGUARD EASY PROGRAMMER ID BRACELETS. POWER FOR THE CONTROL UNIT ABOVE THE DOORS SHALL BE OBTAINED FROM THE EXIT LIGHT ABOVE THE DOOR. ROUTE CONTROL CABLE FROM CONTROL UNITS ABOVE DOOR TO CONTROL PANEL IN COMMUNICATIONS ROOM. ROUTE ALL CABLES VIA THE CABLE TRAY SYSTEM AND CONDUIT TO THE CONTROL PANEL. BRACELETS SHALL BE INTERCHANGEABLE BETWEEN EACH NEW BUILDING.

CCTV SYSTEM NOTE:

CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL CCTV SYSTEM. CCTV SYSTEM SHALL BE TYCO, NO EQUAL. CONTACT STEVE WRIGHT AT 910-397-2557 WITH TYCO INTEGRATED SECURITY SYSTEMS FOR EQUIPMENT AND INSTALLATION. CONTRACTOR SHALL PROVIDE BOXES AND CONDUIT TO ABOVE CABLE TRAY FOR ALL DEVICES SHOWN ON THE PLANS. THE INSTALLER SHALL PROVIDE ALL EQUIPMENT NECESSARY TO CONNECT THIS SYSTEM TO THE NETWORK AND TIE IT INTO THE EXISTING CCTV SYSTEM THAT IS SERVING THIS CAMPUS. POWER TO CAMERAS SHALL BE PROVIDED BY THE ELECTRICAL SUB CONTRACTOR. CAMERAS SHALL BE PAN TILT ZOOM TYPE WITH POWER OVER ETHERNET CONNECTION FOR VIDEO SIGNAL. EXTERIOR CAMERAS SHALL BE PROVIDED WITH VANDAL PROOF ENCLOSURES. CCTV INSTALLER SHALL PROVIDE AN ADDITIONAL HARDWARE AND SOFTWARE AT CAMPUS MONITORING STATION TO MEET VA STANDARDS FOR DATA STORAGE AND MONITORING.

PLAN ORIENTATION TO BE CONSTRUCTED IN THIS PROJECT

NOTE : ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FLOOR PLAN DRAWINGS OF THE BUILDING ENVELOPE AND INTERIOR FOR THE 10 BEDROOM HOUSES ARE DRAWN OPPOSITE HAND (MIRROR IMAGE) OF THE REQUIRED ORIENTATION. REFERENCE THIS KEY PLAN AND/OR CIVIL AND LANDSCAPE DRAWINGS FOR THE PROPER BUILDING ORIENTATION AND ASSOCIATED WALKS, DRIVES, PARKING AND SITE UTILITIES.

BUILDING ORIENTATION KEY PLAN

Revisions: Date

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NORTH CAROLINA PROFESSIONAL ENGINEER RANDY B. PEACOCK

ARCHITECT/ENGINEERS:

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Drawing Title: 10 BED HOME SPECIAL SYSTEMS PLAN ELECTRICAL

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: PEACOCK | Drawn: BRADY

Project Number: 565-131

Building Number: .

Drawing Number: EY101

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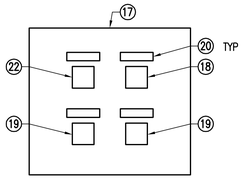
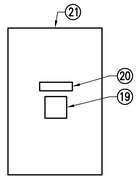
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

Department of Veterans Affairs

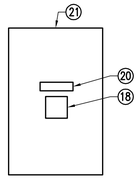
VA FORM 08-6231
CN 5119



VOICE/DATA OUTLET
SCALE: NONE



DATA OUTLET
SCALE: NONE



VOICE OUTLET
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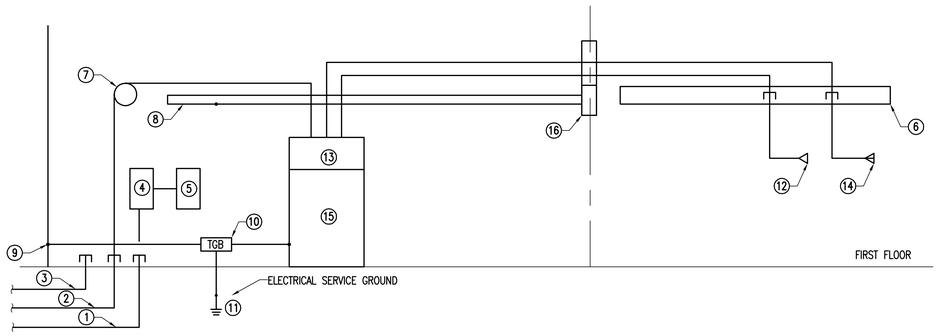
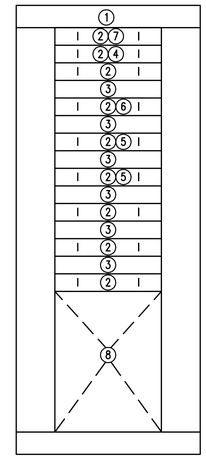


TELECOMMUNICATION RISER DETAIL
SCALE: NONE

NOTES:
(FOR TELECOMMUNICATIONS RISER DIAGRAM AND OUTLET DETAILS ONLY)

1. 4" CONDUIT WITH 50 PR. COPPER PE-89 OSP CABLE.
2. 4" CONDUIT WITH 12 STRAND, 50 MICRON, OM3 MULTI-MODE FIBER OPTIC CABLE, LOOSE TUBE, INDOOR/OUTDOOR CABLE AND 3-4" MESH INNERDUCT.
3. 4" SPARE CONDUIT.
4. PROTECTION MODULE.
5. 110 PUNCH DOWN BLOCKS.
6. CABLE TRAY ABOVE CEILING.
7. 30' MAINTENANCE LOOP IN 12 STRAND INDOOR/OUTDOOR FIBER.
8. CABLE RUNWAY IN TR.
9. EXOTHERMIC WELD TO BUILDING STEEL.
10. GROUND BUS SEE DETAIL.
11. 3/0 COPPER IN PVC CONDUIT TO ELECTRICAL SERVICE GROUND.
12. TYPICAL WALL VOICE OUTLET, PROVIDE ONE CAT 6 CABLE PER OUTLET.
13. FIBER OPTIC CABLE CONNECTOR HOUSING.
14. TYPICAL VOICE/DATA OUTLET. PROVIDE FOUR CAT 6 CABLES PER OUTLET.
15. ELECTRONIC EQUIPMENT RACK.
16. THROUGH WALL FIRE STOP.
17. TWO GANG COVERPLATE.
18. WHITE CAT 6 JACK FOR VOICE.
19. BLUE CAT 6 FOR DATA.
20. IDENTIFICATION.
21. SINGLE GANG COVERPLATE.
22. BLANK PLUG INSERT.



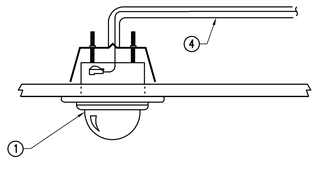
ELEVATION FIRST FLOOR
TELECOMMUNICATIONS AND IT RACKS
SCALE: 1/8" = 1'-0"

NOTES:
(FOR EQUIPMENT RACK DETAIL ONLY)

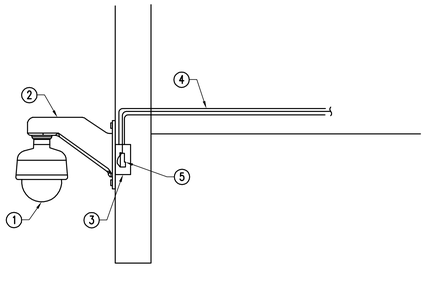
1. 4 POST EQUIPMENT RACK 84"H x 20"W x 36"D, 19" MOUNTING WITH SQUARE HOLES, 6" VERTICAL CABLE MANAGEMENT WITH COVERS.
2. HORIZONTAL CABLE MANAGEMENT 2RU HIGH, 3.5" RING DEPTH WITH COVER.
3. 48 PORT CATEGORY 6 PATCH PANEL.
4. RACK MOUNTED FIBER OPTIC CABLE CONNECTOR HOUSING WITH 12 LCMM CONNECTORS.
5. SPACE FOR GFGI VOICE SWITCH.
6. SPACE FOR GFGI DATA SWITCH.
7. RACK MOUNTED FIBER OPTIC CABLE CONNECTOR HOUSING WITH 12 LCSM CONNECTORS.
8. SPACE FOR GFGI EQUIPMENT.

NOTES:
(FOR CAMERA DETAILS ONLY)

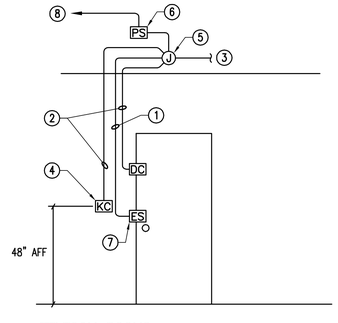
1. DIGITAL IP CAMERA AS SHOWN ON PLANS.
2. WALL MOUNTED PENDANT ARM.
3. SINGLE GANG BOX FOR MOUNTING OF CAMERA.
4. 3/4" CONDUIT WITH VIDEO AND CONTROL CABLES AND WIRE TO CCTV SYSTEM CONTROL PANEL.
5. WIRES TO BE ROUTED THROUGH PENDANT ARM INTO CAMERA.



INTERIOR AND EXTERIOR
CEILING MOUNTED CAMERA DETAIL
SCALE: NONE



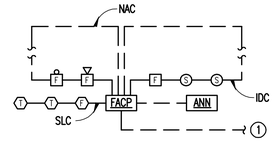
EXTERIOR WALL MOUNTED CAMERA DETAIL
SCALE: NONE



TELECOM ROOMS
ACCESS CONTROL DIAGRAM
SCALE: NONE

NOTES:
(FOR ACCESS CONTROL DIAGRAM ONLY)

1. PROVIDE 3/4" CONDUIT CONNECTION INTO DOOR FRAME.
2. PROVIDE 3/4" CONDUIT TO JUNCTION BOX ABOVE ACCESSIBLE CEILING.
3. TO DOOR ACCESS SYSTEM CONTROL PANEL.
4. KEYPAD/CARD READER WHERE INDICATED ON PLANS.
5. JUNCTION BOX ABOVE ACCESSIBLE CEILING NEAR CONTROLLED DOOR.
6. LOCAL POWER SUPPLY FOR ELECTRONIC DOOR HARDWARE ABOVE ACCESSIBLE CEILING NEAR CONTROLLED DOOR.
7. ELECTRIC STRIKE DOOR LOCK
8. 120V EMERGENCY BRANCH CIRCUIT CONNECTION TO LOCAL POWER SUPPLY.



FIRE ALARM RISER DIAGRAM
SCALE: NONE

NOTES:
(FIRE ALARM RISER DIAGRAM ONLY)

1. TO BASE FIRE DEPARTMENT VIA DEDICATED TELEPHONE LINE. PHONE LINE ROUTED FROM DATA/COM ROOM.

Revisions: Date

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — RANDY B. PEACOCK

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Drawing Title: RISERS AND DETAILS ELECTRICAL
Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE
Location: FAYETTEVILLE, NC
Date: February 5, 2015 | Checked: PEACOCK | Drawn: BRADY

Project Number: 565-131
Building Number: .
Drawing Number: EY102
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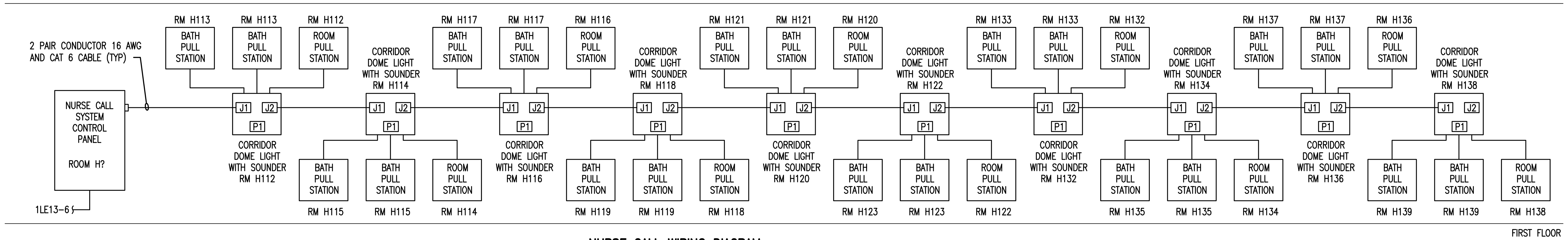
OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

Department of Veterans Affairs

VA FORM 08-6231
CN 5119

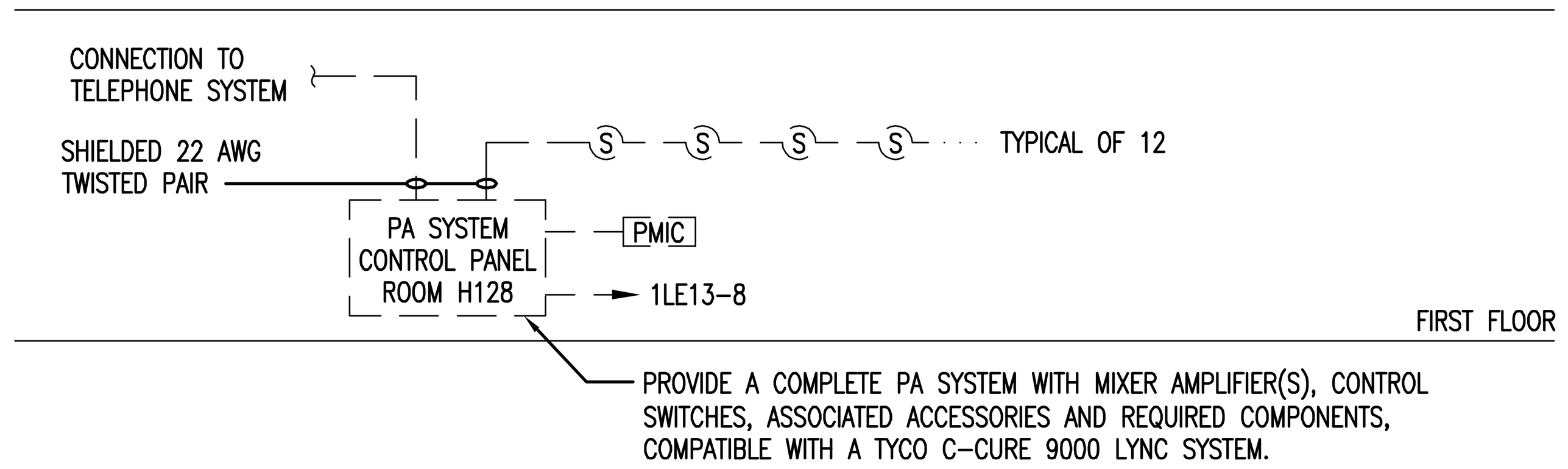
FILE NAME: N:\2013\13119-14 Fayetteville CLC\Drawings\13119 EY102-EY103.dwg LAYOUT NAME: EY102 PLOTTED: Monday, February 02, 2015 - 3:59pm



NURSE CALL WIRING DIAGRAM

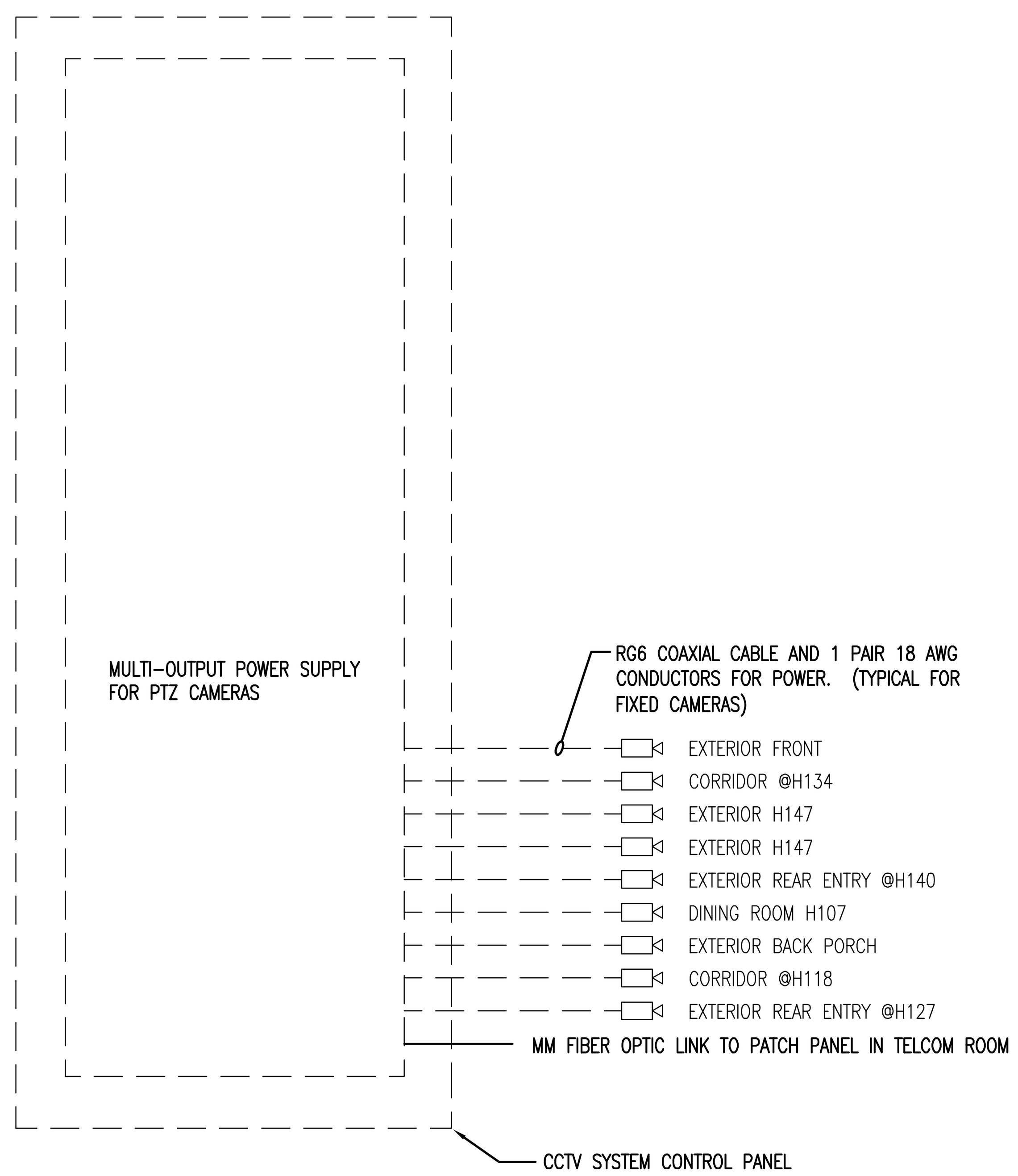
SCALE: NONE

NOTE: ALL WIRING TO BE CAT 6 UNLESS NOTED.



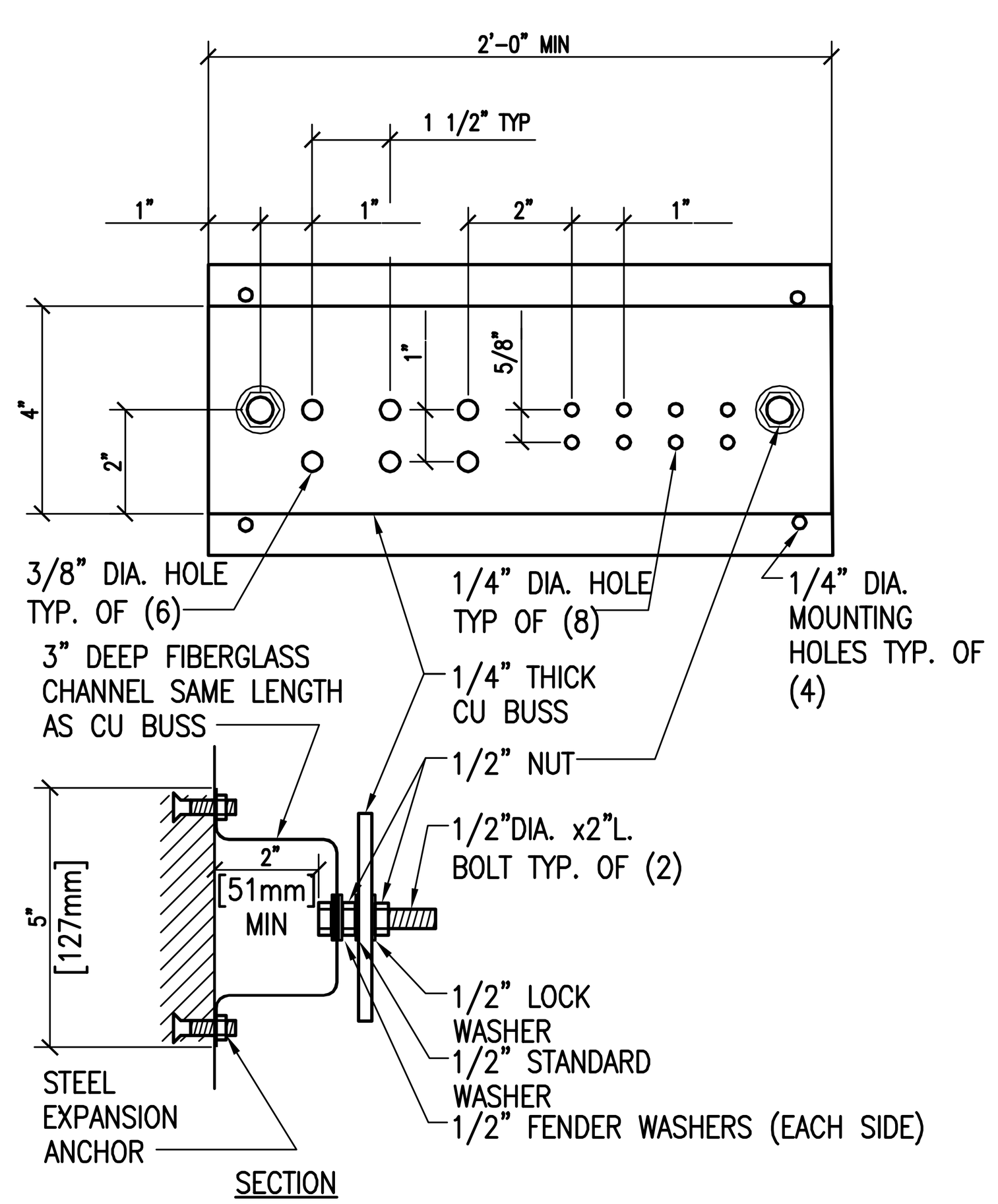
PA SYSTEM RISER

SCALE: NONE



CCTV WIRING DIAGRAM

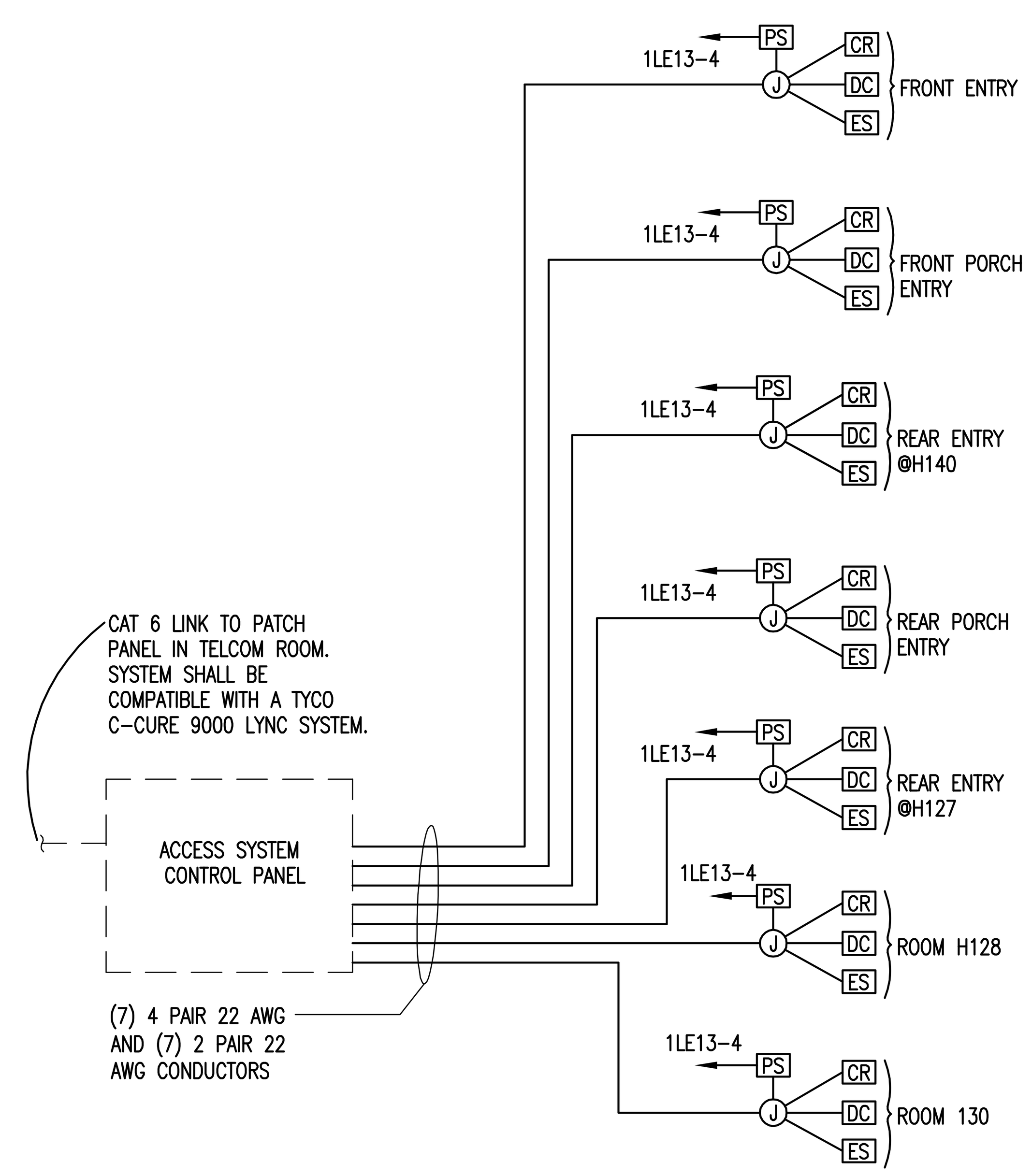
SCALE: NONE



GENERAL NOTES
1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

GROUNDING BAR DETAIL

SCALE: NONE



ACCESS CONTROL RISER DIAGRAM

SCALE: NONE

FINAL SUBMITTAL

Revisions: | Date

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NORTH CAROLINA PROFESSIONAL ENGINEER RANDY B. PEACOCK

ARCHITECT/ENGINEERS:

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590 MEANS ST NW ATLANTA GA 30318

Drawing Title: SPECIAL SYSTEMS RISERS AND DETAILS ELECTRICAL

Approved: Project Director

Project Title: FAYETTEVILLE CLC PROJECT ONE

Location: FAYETTEVILLE, NC

Date: February 5, 2015 | Checked: PEACOCK | Drawn: BRADY

Project Number: 565-131

Building Number: .

Drawing Number: EY103

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